

Araldite Rapid Resin #756-0102, 756-0111 (AUS) RS Components

Chemwatch: 5213-75 Version No: 6.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 2

Initial Date: 24/06/2016 Revision Date: 10/03/2023 Print Date: 22/07/2025 L.GHS.NZL.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Araldite Rapid Resin #756-0102, 756-0111 (AUS)
Chemical Name	Not Applicable
Synonyms	Product Code: 756-0102; 756-0111
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A diglycidyl ether)
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Epoxy constituents.

Details of the manufacturer or importer of the safety data sheet

Registered company name	RS Components
Address	25 Pavesi Street Smithfield NSW 2164 Australia
Telephone	+1 300 656 636
Fax	+1 300 656 696
Website	www.au.rs-online.com
Email	SupportAU@rs.rsgroup.com

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)		
Emergency telephone number(s)	+64 800 700 112 (ID#: 5213-75)		
Other emergency telephone number(s)	+61 3 9573 3188		

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2			
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI			
Determined by Chemwatch using GHS/HSNO criteria	6.3A, 6.4A, 6.5B (contact)			

Label elements

Hazard pictogram(s)



Signal word

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	oid breathing mist/vapours/spray.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water and soap.			
P305+P351+P338	N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P333+P313	skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			

Precautionary statement(s) Storage

Not Applicable

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Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
1675-54-3	70-<90	bisphenol A diglycidyl ether	
2425-79-8	3-<10	1,4-butanediol diglycidyl ether	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI: 4. Classification drawn from C&L: * EU OELVs available			

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

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- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- > Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Firefighting measures

Extinguishing media

- Foam
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Do not use water iets

Advice for firefighters

Special hazards arising from the substrate or mixture

Fire	Incom	natihi	litv
1116	IIICOIII	paubi	III y

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire

Fire/Explosion Hazard

- Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.
- ▶ Mists containing combustible materials may be explosive

Combustion products include:

carbon dioxide (CO2)

Combustible

nitrogen oxides (NOx)

other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
	Environmental hazard - contain spillage.

Environmental hazard - contain spillage.

Moderate hazard.

- Clear area of personnel and move upwind.
- ▶ Alert Fire Brigade and tell them location and nature of hazard
- Wear breathing apparatus plus protective gloves
 - Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources.
- **Major Spills**
 - Increase ventilation.
 - Stop leak if safe to do so. Contain spill with sand, earth or vermiculite
 - Collect recoverable product into labelled containers for recycling.
 - Absorb remaining product with sand, earth or vermiculite
 - Collect solid residues and seal in labelled drums for disposal.
 - Wash area and prevent runoff into drains.
 - If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

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- ▶ Use in a well-ventilated area
- ▶ Prevent concentration in hollows and sumps.
- ▶ DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- ▶ When handling, **DO NOT** eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
- Store in original containers.
- Keep containers securely sealed.
- ▶ No smoking, naked lights or ignition sources.
- Other information
- No smoking, naked lights or ignition sou
 Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.
 - Avoid cross contamination between the two liquid parts of product (kit).
- If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur.
- This excess heat may generate toxic vapour
- Avoid reaction with oxidising agents
- Storage incompatibility

Avoid strong acids, bases. Glycidyl ethers:

- may form unstable peroxides on storage in air ,light, sunlight, UV light or other ionising radiation, trace metals inhibitor should be maintained at adequate levels
- ▶ may polymerise in contact with heat, organic and inorganic free radical producing initiators
- ▶ may polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines
- react violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide
- attack some forms of plastics, coatings, and rubber

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	bisphenol A diglycidyl ether	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	bisphenol A diglycidyl ether	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
bisphenol A diglycidyl ether	Not Available	Not Available
1,4-butanediol diglycidyl ether	Not Available	Not Available

MATERIAL DATA

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

 $\label{prop:eq:employers} \mbox{Employers may need to use multiple types of controls to prevent employee overexposure.}$

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50- 100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100- 200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

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Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment









Eye and face protection

Safety glasses with side shields

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection

See Hand protection below

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- · dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term
- use. · Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- Poor when glove material degrades

Hands/feet protection

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

When handling liquid-grade epoxy resins wear chemically protective gloves, boots and aprons.

The performance, based on breakthrough times ,of:

- · Ethyl Vinyl Alcohol (EVAL laminate) is generally excellent Butyl Rubber ranges from excellent to good
- Nitrile Butyl Rubber (NBR) from excellent to fair.
- Neoprene from excellent to fair

· Polyvinyl (PVC) from excellent to poor As defined in ASTM F-739-96

- · Excellent breakthrough time > 480 min
- · Good breakthrough time > 20 min
- · Fair breakthrough time < 20 min
- · Poor glove material degradation

Gloves should be tested against each resin system prior to making a selection of the most suitable type. Systems include both the resin and any hardener, individually and collectively)

• DO NOT use cotton or leather (which absorb and concentrate the resin), natural rubber (latex), medical or polyethylene gloves (which absorb the resin).

DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use

Replacement time should be considered when selecting the most appropriate glove. It may be more effective to select a glove with lower chemical resistance but which is replaced frequently than to select a more resistant glove which is reused many times

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Body protection

See Other protection below

Poveralls.
P.V.C apron.
Barrier cream.
Skin cleansing cream.
Eye wash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
PE/EVAL/PE	A

- * CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 53-001
AlphaTec® 58-005
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700

The suggested gloves for use should be confirmed with the glove supplier.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

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SECTION 10 Stability and reactivity

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See section 7
 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
See section 7
See section 7
See section 7
See section 5

SECTION 11 Toxicological information

Int	format	ion on	toxico	logica	leffects
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mormation on toxicological c			
a) Acute Toxicity	Based on available data, the classification criteria are not met.		
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.		
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating		
d) Respiratory or Skin sensitisation	There is sufficient evidence to classify this material as sensitising to skin or the respiratory system		
e) Mutagenicity	Based on available data, the classification criteria are not met.		
f) Carcinogenicity	Based on available data, the classification criteria are not met.		
g) Reproductivity	Based on available data, the classification criteria are not met.		
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.		
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.		
j) Aspiration Hazard	Based on available data, the classification criteria are not met.		
Inhaled	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising		

the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Ingestion

The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.

Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

Skin Contact

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis

The material may accentuate any pre-existing dermatitis condition

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

his material causes serious eye irritation.

Chronic

Strong evidence exists that the substance may cause irreversible but non-lethal mutagenic effects following a single exposure. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive

Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive.

Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population.

Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching. Significant symptoms of exposure may persist for extended periods, even after exposure ceases. Symptoms can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes and passive smoking.

All glycidyl ethers show genotoxic potential due their alkylating properties. Those glycidyl ethers that have been investigated in long term

studies exhibit more or less marked carcinogenic potential. Alkylating agents may damage the stem cell which acts as the precursor to components of the blood. Loss of the stem cell may result in pancytopenia (a reduction in the number of red and white blood cells and platelets) with a latency period corresponding to the lifetime of the individual blood cells. Granulocytopenia (a reduction in granular leukocytes) develops within days and thrombocytopenia (a disorder involving platelets), within 1-2 weeks, whilst loss of erythrocytes (red Chemwatch: **5213-75** Page **8** of **14**

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blood cells) need months to become clinically manifest. Aplastic anaemia develops due to complete destruction of the stem cells. Reported adverse effects in laboratory animals include sensitization, and skin and eye irritation, as well as mutagenic and tumorigenic activity.

Testicular abnormalities (including testicular atrophy with decreased spermatogenic activity) following exposure to glycidyl ethers have been reported. Haemopoietic abnormalities following exposure to glycidyl ethers, including alteration of the leukocyte count, atrophy of lymphoid tissue, and bone marrow cytotoxicity have also been reported. These abnormalities were usually observed along with pneumonia and/or toxemia, and therefore may be secondary effects. However, especially in light of the generalized reduction in leukocytes and the atrophy of lymphoid tissues, the observed haemopoietic abnormalities may have been predisposing factors to pneumonia. While none of the individual research reports are conclusive with respect to the ability of glycidyl ethers to produce permanent changes to the testes or haemopoietic system in laboratory animals, the pattern of displayed effects is reason for concern

Glycidyl ethers have been shown to cause allergic contact dermatitis in humans. Glycidyl ethers generally cause skin sensitization in experimental animals. Necrosis of the mucous membranes of the nasal cavities was induced in mice exposed to allyl glycidyl ether. A study of workers with mixed exposures was inconclusive with regard to the effects of specific glycidyl ethers. Phenyl glycidyl ether, but not n-butyl glycidyl ether, induced morphological transformation in mammalian cells in vitro. n-Butyl glycidyl ether induced micronuclei in mice in vivo following intraperitoneal but not oral administration. Phenyl glycidyl ether did not induce micronuclei or chromosomal aberrations in vivo or chromosomal aberrations in animal cells in vitro. Alkyl C12 or C14 glycidyl ether did not induce DNA damage in cultured human cells or mutation in cultured animal cells. Allyl glycidyl ether induced mutation in Drosophila. The glycidyl ethers were generally mutagenic to bacteria.

raldite Rapid Resin #756-	TOXICITY	IRRITATION	
0102, 756-0111 (AUS)	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (Rodent - rabbit): 100mg - Mild	
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Eye (Rodent - rabbit): 100mg - Mild	
		Eye (Rodent - rabbit): 100mg - Mild	
		Eye (Rodent - rabbit): 20mg/24H - Moderate	
		Eye (Rodent - rabbit): 2mg/24H - Severe	
bisphenol A diglycidyl ether		Eye (Rodent - rabbit): 5mg/24H - Severe	
		Eye: adverse effect observed (irritating) ^[1]	
		Skin (Rodent - guinea pig): 2750mg/55D (intermittent)	
		Skin (Rodent - rabbit): 2mg/24H - Severe	
		Skin (Rodent - rabbit): 500mg - Mild	
		Skin (Rodent - rabbit): 500uL/24H - Moderate	
		Skin: adverse effect observed (irritating) ^[1]	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 1130 mg/kg ^[2]	Eye (Rodent - rabbit): 100mg - Moderate	
1,4-butanediol diglycidyl ether	Oral (Rat) LD50: 1118 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]	
		Skin (Rodent - rabbit): 10mg/24H - Moderate	
		Skin: no adverse effect observed (not irritating) ^[1]	

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

BISPHENOL A DIGLYCIDYL FTHER

In mice, dermal application of bisphenol A diglycidyl ether (BADGE) (1, 10, or 100 mg/kg) for 13 weeks produced mild to moderate chronic active dermatitis. At the high dose, spongiosis and epidermal micro abscess formation were observed. In rats, dermal application of BADGE (10, 100, or 1000 mg/kg) for 13 weeks resulted in a decrease in body weight at the high dose. The no-observable effect level (NOEL) for dermal exposure was 100 mg/kg for both sexes. In a separate study, application of BADGE (same doses) five times per week for ~13 weeks not only caused a decrease in body weight but also produced chronic dermatitis at all dose levels in males and at >100 mg/kg in females (as well as in a satellite group of females given 1000 mg/kg).

Reproductive and Developmental Toxicity: BADGE (50, 540, or 750 mg/kg) administered to rats via gavage for 14 weeks (P1) or 12

Reproductive and Developmental Toxicity: BADGE (50, 540, or 750 mg/kg) administered to rats via gavage for 14 weeks (P1) or 12 weeks (P2) produced decreased body weight in all males at the mid dose and in both males and females at the high dose, but had no reproductive effects. The NOEL for reproductive effects was 750 mg/kg.

Carcinogenicity: IARC concluded that "there is limited evidence for the carcinogenicity of bisphenol A diglycidyl ether in experimental animals." Its overall evaluation was "Bisphenol A diglycidyl ether is not classifiable as to its carcinogenicity to humans (Group 3). In a lifetime tumourigenicity study in which 90-day-old C3H mice received three dermal applications per week of BADGE (undiluted dose) for 23 months, only one out of 32 animals developed a papilloma after 16 months. A retest, in which skin paintings were done for 27 months, however, produced no tumours (Weil et al., 1963). In another lifetime skin-painting study, BADGE (dose n.p.) was also reported to be noncarcinogenic to the skin of C3H mice; it was, however, weakly carcinogenic to the skin of C57BL/6 mice (Holland et al., 1979; cited by Canter et al., 1986). In a two-year bioassay, female Fisher 344 rats dermally exposed to BADGE (1, 100, or 1000 mg/kg) showed no evidence of dermal carcinogenicity but did have low incidences of tumours in the oral cavity (U.S. EPA, 1997).

Genotoxicity: In S. typhimurium strains TA100 and TA1535, BADGE (10-10,000 ug/lplate) was mutagenic with and without S9; negative

Genotoxicity: In S. typhimurium strains TA100 and TA1535, BADGE (10-10,000 ug/plate) was mutagenic with and without S9; negative results were obtained in TA98 and TA1537 (Canter et al., 1986; Pullin, 1977). In a spot test, BADGE (0.05 or 10.00 mg) failed to show mutagenicity in strains TA98 and TA100 (Wade et al., 1979). Negative results were also obtained in the body fluid test using urine of female BDF and ICR mice (1000 mg/kg BADGE), the mouse host-mediated assay (1000 mg/kg), micronucleus test (1000 mg/kg), and dominant lethal assay (~3000 mg/kg).

Immunotoxicity: Intracutaneous injection of diluted BADGE (0.1 mL) three times per week on alternate days (total of 8 injections) followed by a three-week incubation period and a challenge dose produced sensitisation in 19 of 20 guinea pigs

Consumer exposure to BADGE is almost exclusively from migration of BADGE from can coatings into food. Using a worst-case scenario that assumes BADGE migrates at the same level into all types of food, the estimated per capita daily intake for a 60-kg individual is approximately 0.16 ug/kg body weight/day. A review of one- and two-generation reproduction studies and developmental investigations found no evidence of reproductive or endocrine toxicity, the upper ranges of dosing being determined by maternal toxicity. The lack of endocrine toxicity in the reproductive and developmental toxicological tests is supported by negative results from both in vivo and in vitro assays designed specifically to detect oestrogenic and androgenic properties of BADGE. An examination of data from sub-chronic and chronic toxicological studies support a NOAEL of 50 mg/ kg/body weight day from the 90-day study, and a NOAEL of 15 mg/kg body weight/day (male rats) from the 2-year carcinogenicity study. Both NOAELS are considered appropriate for risk assessment. Comparing the estimated daily human intake of 0.16 ug/kg body weight/day with the NOAELS of 50 and 15 mg/kg body weight/day shows human exposure

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to BADGE from can coatings is between 250,000 and 100,000-fold lower than the NOAELs from the most sensitive toxicology tests. These large margins of safety together with lack of reproductive, developmental, endocrine and carcinogenic effects supports the continued use of BADGE for use in articles intended to come into contact with foodstuffs.

Bisphenol A exhibits hormone-like properties that raise concern about its suitability in consumer products and food containers. Bisphenol A is thought to be an endocrine disruptor which can mimic oestrogen and may lead to negative health effects. More specifically, bisphenol A closely mimics the structure and function of the hormone oestradiol with the ability to bind to and activate the same oestrogen receptor as the natural hormone. The presence of the p-hydroxy group on the benzene rings is though to be responsible for the oestradiol mimicry. Early developmental stages appear to be the period of greatest sensitivity to its effects and some studies have linked prenatal exposure to later physical and neurological difficulties. Regulatory bodies have determined safety levels for humans, but those safety levels are being questioned or are under review.

A 2009 study on Chinese workers in bisphenol A factories found that workers were four times more likely to report erectile dysfunction, reduced sexual desire and overall dissatisfaction with their sex life than workers with no heightened bisphenol A exposure. Bisphenol A workers were also seven times more likely to have ejaculation difficulties. They were also more likely to report reduced sexual function within one year of beginning employment at the factory, and the higher the exposure, the more likely they were to have sexual difficulties. Bisphenol A in weak concentrations is sufficient to produce a negative reaction on the human testicle. The researchers found that a concentration equal to 2 ug/ litre of bisphenol A in the culture medium, a concentration equal to the average concentration generally found in the blood, urine and amniotic fluid of the population, was sufficient to produce the effects. The researchers believe that exposure of pregnant women to bisphenol A may be one of the causes of congenital masculinisation defects of the hypospadia and cryptorchidism types the frequency of which has doubled overall since the 70's. They also suggested that "it is also possible that bisphenol A contributes to a reduction in the production of sperm and the increase in the incidence of testicular cancer in adults that have been observed in recent decades"

One review has concluded that obesity may be increased as a function of bisphenol A exposure, which "...merits concern among scientists and public health officials"

One study demonstrated that adverse neurological effects occur in non-human primates regularly exposed to bisphenol A at levels equal to the United States Environmental Protection Agency's (EPA) maximum safe dose of 50 ug/kg/day This research found a connection between bisphenol A and interference with brain cell connections vital to memory, learning, and mood.

A further review concluded that bisphenol-A has been shown to bind to thyroid hormone receptor and perhaps have selective effects on its functions. Carcinogenicity studies have shown increases in leukaemia and testicular interstitial cell tumours in male rats. However, "these studies have not been considered as convincing evidence of a potential cancer risk because of the doubtful statistical significance of the small differences in incidences from controls". Another in vitro study has concluded that bisphenol A is able to induce neoplastic transformation in human breast epithelial cells (whilst a further study concluded that maternal oral exposure to low concentrations of bisphenol A, during lactation, increases mammary carcinogenesis in a rodent model. In vitro studies have suggested that bisphenol A can promote the growth of neuroblastoma cells and potently promotes invasion and metastasis of neuroblastoma cells. Newborn rats exposed to a low-dose of bisphenol A (10 ug/kg) showed increased prostate cancer susceptibility when adults. At least one study has suggested that bisphenol A suppresses DNA methylation which is involved in epigenetic changes.

Bisphenol A is the isopropyl adduct of 4,4'-dihydroxydiphenyl oxide (DHDPO). A series of DHDPO analogues have been investigated as potential oestrogen receptor/anti-tumour drug carriers in the development of a class of therapeutic drugs called "cytostatic hormones". Oestrogenic activity is induced with 1 to 100 mg/kg body weight in animal models. Bisphenol A sealants are frequently used in dentistry for treatment of dental pits and fissures. Samples of saliva collected from dental patients during a 1-hour period following application contain the monomer. A bisphenol-A sealant has been shown to be oestrogenic in vitro; such sealants may represent an additional source of xenoestrogens in humans and may be the cause of additional concerns in children.

Concerns have been raised about the possible developmental effects on the foetus/embryo or neonate resulting from the leaching of bisphenol A from epoxy linings in metal cans which come in contact with food-stuffs.

Many drugs, including naproxen, salicylic acid, carbamazepine and mefenamic acid can, in vitro, significantly inhibit bisphenol A glucuronidation (detoxification).

BPA belongs to the list of compounds having this property as the rodent models have shown that BPA exposure is linked with increased body weigh (obesogens)t. Several mechanisms can help explain the effect of BPA on body weight increase. A possible mechanism leading to triglyceride accumulation is the decreased production of the hormone adiponectin from all human adipose tissue tested when exposed to very low levels (below nanomolar range) of BPA in cell or explant culture settings. The expression of leptin as well as several enzymes and transcription factors is also affected by BPA exposure in vivo as well as in vitro. Together, the altered expression and activity of these important mediators of fat metabolism could explain the increase in weight following BPA exposure in rodent models. These results also suggest that, together with other obesogens, low, environmentally relevant levels of BPA may contribute to the human obesity phenomenon. All glycidyl ethers show genotoxic potential due their alkylating properties. Those glycidyl ethers that have been investigated in long term studies exhibit more or less marked carcinogenic potential. Alkylating agents may damage the stem cell which acts as the precursor to components of the blood. Loss of the stem cell may result in pancytopenia (a reduction in the number of red and white blood cells and platelets) with a latency period corresponding to the lifetime of the individual blood cells. Granulocytopenia (a reduction in granular leukocytes) develops within days and thrombocytopenia (a disorder involving platelets), within 1-2 weeks, whilst loss of erythrocytes (red blood cells) need months to become clinically manifest. Aplastic anaemia develops due to complete destruction of the stem cells. Reported adverse effects in laboratory animals include sensitization, and skin and eye irritation, as well as mutagenic and tumorigenic activity.

Testicular abnormalities (including testicular atrophy with decreased spermatogenic activity) following exposure to glycidyl ethers have been reported. Haemopoietic abnormalities following exposure to glycidyl ethers, including alteration of the leukocyte count, atrophy of lymphoid tissue, and bone marrow cytotoxicity have also been reported. These abnormalities were usually observed along with pneumonia and/or toxemia, and therefore may be secondary effects. However, especially in light of the generalized reduction in leukocytes and the atrophy of lymphoid tissues, the observed haemopoietic abnormalities may have been predisposing factors to pneumonia. While none of the individual research reports are conclusive with respect to the ability of glycidyl ethers to produce permanent changes to the testes or haemopoietic system in laboratory animals, the pattern of displayed effects is reason for concern

Glycidyl ethers have been shown to cause allergic contact dermatitis in humans. Glycidyl ethers generally cause skin sensitization in experimental animals. Necrosis of the mucous membranes of the nasal cavities was induced in mice exposed to allyl glycidyl ether. A study of workers with mixed exposures was inconclusive with regard to the effects of specific glycidyl ethers. Phenyl glycidyl ether, but not n-butyl glycidyl ether, induced morphological transformation in mammalian cells in vitro. n-Butyl glycidyl ether induced micronuclei in mice in vivo following intraperitoneal but not oral administration. Phenyl glycidyl ether did not induce micronuclei or chromosomal aberrations in vivo or chromosomal aberrations in animal cells in vitro. Alkyl C12 or C14 glycidyl ether did not induce DNA damage in cultured human cells or mutation in cultured animal cells. Allyl glycidyl ether induced mutation in Drosophila. The glycidyl ethers were generally mutagenic to bacteria.

55badgei

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

1,4-BUTANEDIOL DIGLYCIDYL ETHER

Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

BISPHENOL A DIGLYCIDYL ETHER & 1,4-BUTANEDIOL DIGLYCIDYL ETHER The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested

Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) exhibit many common characteristics with respect to animal toxicology. One such oxirane is ethyloxirane; data presented here may be taken as representative. for 1,2-butylene oxide (ethyloxirane):

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Ethyloxirane increased the incidence of tumours of the respiratory system in male and female rats exposed via inhalation. Significant increases in nasal papillary adenomas and combined alveolar/bronchiolar adenomas and carcinomas were observed in male rats exposed to 1200 mg/m3 ethyloxirane via inhalation for 103 weeks. There was also a significant positive trend in the incidence of combined alveolar/bronchiolar adenomas and carcinomas. Nasal papillary adenomas were also observed in 2/50 high-dose female rats with none occurring in control or low-dose animals. In mice exposed chronically via inhalation, one male mouse developed a squamous cell papilloma in the nasal cavity (300 mg/m3) but other tumours were not observed. Tumours were not observed in mice exposed chronically via dermal exposure. When trichloroethylene containing 0.8% ethyloxirane was administered orally to mice for up to 35 weeks, followed by 0.4% from weeks 40 to 69, squamous-cell carcinomas of the forestomach occurred in 3/49 males (p=0.029, age-adjusted) and 1/48 females at week 106. Trichloroethylene administered alone did not induce these tumours and they were not observed in control animals. Two structurally related substances, oxirane (ethylene oxide) and methyloxirane (propylene oxide), which are also direct-acting alkylating agents, have been classified as carcinogenic

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	~	STOT - Single Exposure	×
Respiratory or Skin sensitisation	~	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Leaend

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

Version No: 6.1

	Endpoint	Test Duration (hr)	Species	Value	Source
Araldite Rapid Resin #756- 0102, 756-0111 (AUS)	Not Available	Not Available	Not Available		Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	1.1mg/l	2
bisphenol A diglycidyl ether	EC50	72h	Algae or other aquatic plants		2
	NOEC(ECx)	504h	Crustacea		2
	LC50	96h	Fish	1.2mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
1,4-butanediol diglycidyl ether	EC0(ECx)	24h	Crustacea	32mg/l	2
Cilici	LC50	96h	Fish	24mg/l	2
Legend:	Ecotox databas	IUCLID Toxicity Data 2. Europe ECHA Reg. se - Aquatic Toxicity Data 5. ECETOC Aquatic uncentration Data 8. Vendor Data			

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bisphenol A diglycidyl ether	HIGH	HIGH
1,4-butanediol diglycidyl ether	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation	
bisphenol A diglycidyl ether	MEDIUM (LogKOW = 3.84)	
1,4-butanediol diglycidyl ether	LOW (LogKOW = -0.1458)	

Mobility in soil

Ingredient	Mobility	
bisphenol A diglycidyl ether	LOW (Log KOC = 1767)	
1,4-butanediol diglycidyl ether	LOW (Log KOC = 10)	

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- Where possible retain label warnings and SDS and observe all notices pertaining.
 DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.

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- ▶ Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Version No: 6.1

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Not Applicable

Special provisions

Cargo Only Packing Instructions

Cargo Only Maximum Qty / Pack

Passenger and Cargo Packing Instructions

Passenger and Cargo Maximum Qty / Pack

Passenger and Cargo Limited Quantity Packing Instructions

Passenger and Cargo Limited Maximum Qty / Pack

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required				
Marine Pollutant	NO			
HAZCHEM	●3Z			
Land transport (UN)				
14.1. UN number or ID number	3082			
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A diglycidyl ether)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard	9 Not Applic	cable	
14.4. Packing group	III			
14.5. Environmental hazard	Not Applicable	Not Applicable		
14.6. Special precautions for user	Special provisions 274; 331; 3: Limited quantity 5 L		335; 375	
Air transport (ICAO-IATA / DGF	R)			
14.1. UN number	3082			
14.2. UN proper shipping name	Environmentally hazar	Environmentally hazardous substance, liquid, n.o.s. (contains bisphenol A diglycidyl ether)		
	ICAO/IATA Class		9	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard		Not Applicable	
,	ERG Code		9L	

Sea transport (IMDG-Code / GGVSee)

14.4. Packing group14.5. Environmental hazard

user

14.6. Special precautions for

Sea transport (impo-code / GGVSee)			
14.1. UN number	3082		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A diglycidyl ether)		
14.3. Transport hazard class(es)	IMDG Class 9 IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group	III		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number F-A , S-F		

A97 A158 A197 A215

964

450 L

964

450 L

Y964

30 kg G

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Special provisions	274 335 969
Limited Quantities	5 L

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
bisphenol A diglycidyl ether	Not Available
1,4-butanediol diglycidyl ether	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
bisphenol A diglycidyl ether	Not Available
1,4-butanediol diglycidyl ether	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020 HSR002536 Cleaning Products Subsidiary Hazard Group Standard 2020 HSR002503 Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002503 Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002610 Lubricants Lubricant Additives Coolants and Anil freeze Agents Subsidiary Hazard Group Standard 2020 HSR002624 N.O.S. Subsidiary Hazard Group Standard 2020 HSR002638 Photographic Chemicals Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002659 Solvents Subsidiary Hazard Group Standard 2020 HSR002660 Surface Coalizes and Colourants Subsidiary Hazard Group Standard 2020 HSR002661 Surface Coalizes and Colourants Subsidiary Hazard Group Standard 2020 HSR002662 Pharmaceutical Active Ingredients Group Standard 2020 HSR002663 Construction Products Subsidiary Hazard Group Standard 2020 HSR002664 Construction Products Subsidiary Hazard Group Standard 2020 HSR002657 Construction Products Subsi	HSR Number	Group Standard
HSR002535 Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020 HSR002503 Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002506 Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020 HSR002612 Metal Industry Products Subsidiary Hazard Group Standard 2020 HSR002634 N.O.S. Subsidiary Hazard Group Standard 2020 HSR002638 Photographic Chemicals Subsidiary Hazard Group Standard 2020 HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002653 Solvents Subsidiary Hazard Group Standard 2020 HSR002650 Solvents Subsidiary Hazard Group Standard 2020 HSR002650 Solvents Subsidiary Hazard Group Standard 2020 HSR002664 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002669 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002660 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002660 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002564 Construction Products Subsidiary Hazard Group Standard 2020 HSR002559 Cosmetic Products Group Standard 2020 HSR002550 Cosmetic Products Group Standard 2020 HSR002551 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002576 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002577 Veterinary Medicines Ander Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002579 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100757 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020
HSR002503 Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002606 Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020 HSR002612 Metal Industry Products Subsidiary Hazard Group Standard 2020 HSR002638 Photographic Chemicals Subsidiary Hazard Group Standard 2020 HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002653 Solvents Subsidiary Hazard Group Standard 2020 HSR002664 Reflining Catalysts Group Standard 2020 HSR002665 Solvents Subsidiary Hazard Group Standard 2020 HSR002668 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002664 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002664 Catalysis Group Standard 2020 HSR002664 Catalysis Group Standard 2020 HSR002665 Pharmaceutical Active Ingredients Group Standard 2020 HSR002660 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002569 Correction Inhibitors Subsidiary Hazard Group Standard 2020 HSR002569 Correction Products Subsidiary Hazard Group Standard 2020 HSR002569 Dental Products Subsidiary Hazard Group Standard 2020 HSR002570 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002576 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100757 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020
HSR002612 Metal Industry Products Subsidiary Hazard Group Standard 2020 HSR002612 Metal Industry Products Subsidiary Hazard Group Standard 2020 HSR002624 N.O.S. Subsidiary Hazard Group Standard 2020 HSR002638 Photographic Chemicals Subsidiary Hazard Group Standard 2020 HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002653 Solvents Subsidiary Hazard Group Standard 2020 HSR002668 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002684 Catalysts Group Standard 2020 HSR002660 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002559 Cosmetic Products Group Standard 2020 HSR002550 Cosmetic Products Group Standard 2020 HSR002551 Dental Products Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002576 Food Additives Subsidiary Hazard Group Standard 2020 HSR002576 Food Additives Subsidiary Hazard Group Standard 2020 HSR002577 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002578 Food Additives Subsidiary Hazard Group Standard 2020 HSR002579 Veterinary Medicines Initiated Pack Size Finished Dose Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020
HSR002612 Metal Industry Products Subsidiary Hazard Group Standard 2020 HSR002638 Photographic Chemicals Subsidiary Hazard Group Standard 2020 HSR002644 Potymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002658 Solvents Subsidiary Hazard Group Standard 2020 HSR002650 Solvents Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002555 Dental Products Subsidiary Hazard Group Standard 2020 HSR002556 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020
HSR002624 N.O.S. Subsidiary Hazard Group Standard 2020 HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002653 Solvents Subsidiary Hazard Group Standard 2020 HSR002664 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002665 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002664 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002664 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002660 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002571 Ferfilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002578 Food Additives Subsidiary Hazard Group Standard 2020 HSR002578 Food Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR002596 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100757 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020
HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002663 Solvents Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002680 Pharmaceutical Active Ingredients Group Standard 2020 HSR00260 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002556 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002576 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002577 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100757 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020
HSR002644 Polymers Subsidiary Hazard Group Standard 2020 HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002663 Solvents Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR00757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020
HSR002647 Reagent Kits Group Standard 2020 HSR002648 Refining Catalysts Group Standard 2020 HSR002653 Solvents Subsidiary Hazard Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR002684 Pharmaceutical Active Ingredients Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR00757 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020
HSR002648 Refining Catalysts Group Standard 2020 HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR100425 Pharmaceutical Active Ingredients Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002576 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002565 Fuel Additives Australia Subsidiary Hazard Group Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR00757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002644	Polymers Subsidiary Hazard Group Standard 2020
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HSR002670 Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020 HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR100425 Pharmaceutical Active Ingredients Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002648	Refining Catalysts Group Standard 2020
HSR002684 Water Treatment Chemicals Subsidiary Hazard Group Standard 2020 HSR100425 Pharmaceutical Active Ingredients Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Group Standard 2020 HSR002566 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002653	Solvents Subsidiary Hazard Group Standard 2020
HSR100425 Pharmaceutical Active Ingredients Group Standard 2020 HSR002600 Leather and Textile Products Subsidiary Hazard Group Standard 2020 HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020
HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002549 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002586 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020
HSR002544 Construction Products Subsidiary Hazard Group Standard 2020 HSR002559 Cosmetic Products Group Standard 2020 HSR002552 Dental Products Subsidiary Hazard Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2020 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100425	Pharmaceutical Active Ingredients Group Standard 2020
HSR002559 Corrosion Inhibitors Subsidiary Hazard Group Standard 2020 HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020
HSR002552 Cosmetic Products Group Standard 2020 HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100759 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002544	Construction Products Subsidiary Hazard Group Standard 2020
HSR002558 Dental Products Subsidiary Hazard Group Standard 2020 HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020
HSR002565 Embalming Products Subsidiary Hazard Group Standard 2020 HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002552	Cosmetic Products Group Standard 2020
HSR002571 Fertilisers Subsidiary Hazard Group Standard 2020 HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002558	Dental Products Subsidiary Hazard Group Standard 2020
HSR002573 Fire Fighting Chemicals Group Standard 2021 HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020
HSR002578 Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020 HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020
HSR002585 Fuel Additives Subsidiary Hazard Group Standard 2020 HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002573	Fire Fighting Chemicals Group Standard 2021
HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2020 HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020
HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020 HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020
HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard 2020 HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020
HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020
HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020
	HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020
HSR100756 Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020
	HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

bisphenol A diglycidyl ether is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

New Zealand Workplace Exposure Standards (WES)

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Araldite Rapid Resin #756-0102, 756-0111 (AUS)

Initial Date: 24/06/2016 Revision Date: 10/03/2023 Print Date: 22/07/2025

1,4-butanediol diglycidyl ether is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

Additional Regulatory Information

Not Applicable

Version No: 6.1

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (bisphenol A diglycidyl ether; 1,4-butanediol diglycidyl ether)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (bisphenol A diglycidyl ether; 1,4-butanediol diglycidyl ether)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	10/03/2023
Initial Date	24/06/2016

SDS Version Summary

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Version	Date of Update	Sections Updated	
5.1	27/07/2021	Physical and chemical properties - Appearance, Firefighting measures - Fire Fighter (extinguishing media), Composition / information on ingredients - Ingredients, Handling and storage - Storage (storage incompatibility), Name	
6.1	10/03/2023	Classification change due to full database hazard calculation/update.	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

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Araldite Rapid Resin #756-0102, 756-0111 (AUS)

Initial Date: 24/06/2016 Revision Date: 10/03/2023 Print Date: 22/07/2025

- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ► ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
 MARPOL: International Convention for the Prevention of Pollution from Ships
- ► IMSBC: International Maritime Solid Bulk Cargoes Code
- ▶ IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.



Araldite Rapid Hardener #756-0102, 756-0111 (AUS) RS Components

Chemwatch: **5213-76** Version No: **6.1**

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 2

Initial Date: 24/06/2016 Revision Date: 04/07/2025 Print Date: 22/07/2025 L.GHS.NZL.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product name Araldite Rapid Hardener #756-0102, 756-0111 (AUS) Chemical Name Not Applicable Synonyms Manufacturer's Code: 756-0102, 756-0111 Chemical formula Not Applicable Other means of identification Not Available Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses Hardener.

Details of the manufacturer or importer of the safety data sheet

Registered company name	RS Components
Address	25 Pavesi Street Smithfield NSW 2164 Australia
Telephone	+1 300 656 636
Fax	+1 300 656 696
Website	www.au.rs-online.com
Email	SupportAU@rs.rsgroup.com

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone number(s)	+64 800 700 112 (ID#: 5213-76)	
Other emergency telephone number(s)	+61 3 9573 3188	

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.3A, 8.3A, 6.5B (contact), 9.1C

Label elements

Hazard pictogram(s)



Signal word	Danger

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H412	Harmful to aquatic life with long lasting effects.	
Precautionary statement(s) Pre	evention	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
Precautionary statement(s) Response		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER/doctor/physician/first aider.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
10563-29-8	1-<3	dimethyldipropylenetriamine
90-72-2	1-<3	2,4,6-tris[(dimethylamino)methyl]phenol
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

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Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. 	
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. 	

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.
 Do not use water jets.

Special hazards arising from the substrate or mixture

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Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Advice for firefighters Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course.
 Use water delivered as a fine spray to control fire and cool adjacent area. Fire Fighting Avoid spraying water onto liquid pools. ▶ DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Combustible Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Fire/Explosion Hazard Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

May emit poisonous fumes. May emit corrosive fumes.

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

- 1		
Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. 	
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.	

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

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Conditions for safe storage, including any incompatibilities

Suitable container Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. Avoid reaction with oxidising agents Avoid cross contamination between the two liquid parts of product (kit). If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur. This excess heat may generate toxic vapour

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Ingredient	Original IDLH	Revised IDLH
dimethyldipropylenetriamine	Not Available	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available	Not Available

MATERIAL DATA

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Appropriate engineering	
controls	

Type or Community	/ III Opoodi
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50- 100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100- 200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

Type of Contaminant:

Lower end of the range	Upper end of the range	
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
3: Intermittent, low production.	3: High production, heavy use	
4: Large hood or large air mass in motion	4: Small hood-local control only	

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment













Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection

See Hand protection below

Hands/feet protection

- ▶ Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

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- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact.
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term
- · Contaminated gloves should be replaced.
- As defined in ASTM F-739-96 in any application, gloves are rated as:
- · Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

Other protection

- Overalls.P.V.C apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AK-AUS / Class1 P2	-
up to 50	1000	-	AK-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AK-2 P2
up to 100	10000	-	AK-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
 The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not
- In the wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used 76ak-p()

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties **Appearance** Light yellow viscous liquid with a slight odour; practically insoluble in water. Physical state Liquid Relative density (Water = 1) 1.165 @25C Partition coefficient n-octanol Odour Slight Not Available / water Auto-ignition temperature Odour threshold Not Available Not Available (°C)

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Araldite Rapid Hardener #756-0102, 756-0111 (AUS)

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pH (as supplied)	Not Available	Decomposition temperature (°C)	>200
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	17167.382-34334.764 @25C
Initial boiling point and boiling range (°C)	>200	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100 (PMCC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<0.001 @20C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

a) Acute Toxicity	ased on available data, the classification criteria are not met.		
b) Skin Irritation/Corrosion	ere is sufficient evidence to classify this material as skin corrosive or irritating.		
c) Serious Eye Damage/Irritation	ere is sufficient evidence to classify this material as eye damaging or irritating		
d) Respiratory or Skin sensitisation	is sufficient evidence to classify this material as sensitising to skin or the respiratory system		
e) Mutagenicity	sed on available data, the classification criteria are not met.		
f) Carcinogenicity	Based on available data, the classification criteria are not met.		
g) Reproductivity	Based on available data, the classification criteria are not met.		
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.		
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.		
j) Aspiration Hazard	Based on available data, the classification criteria are not met.		

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.

Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Inhaled

Inhalation of epoxy resin amine hardener vapours (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing "amine asthma". The literature records several instances of systemic intoxications following the use of amines in epoxy resin systems.

Excessive exposure to the vapours of epoxy amine curing agents may cause both respiratory irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure, are headache, dizziness, drowsiness, and incoordination. In short, a single prolonged (measured in hours) or excessive inhalation exposure may cause serious adverse effects, including death.

Ingestion

Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea. The vomitus may contain blood and mucous. If death does not occur within 24 hours there may be an improvement in the patients condition for 2-4 days only to be followed by the sudden onset of abdominal pain, board-like abdominal rigidity or hypo-tension; this indicates that delayed gastric or oesophageal corrosive damage has occurred.

Skin Contact

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four Chemwatch: **5213-76** Page **7** of **12**

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hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

The material may accentuate any pre-existing dermatitis condition

Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling. Blistering, with weeping of serious fluid, and crusting and scaling may also occur.

Virtually all of the liquid amine curing agents can cause sensitisation or allergic skin reactions.

Individuals exhibiting "amine dermatitis" may experience a dramatic reaction upon re-exposure to minute quantities. Highly sensitive persons may even react to cured resins containing trace amounts of unreacted amine hardener. Minute quantities of air-borne amine may precipitate intense dermatological symptoms in sensitive individuals. Prolonged or repeated exposure may produce tissue necrosis.

NOTE: Susceptibility to this sensitisation will vary from person to person. Also, allergic dermatitis may not appear until after several days or weeks of contact. However, once sensitisation has occurred, exposure of the skin to even very small amounts of the material may cause erythema (redness) and oedema (swelling) at the site. Thus, all skin contact with any epoxy curing agent should be avoided.

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye

Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive.

Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers. Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive.

Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Chronic

Inhalation of epoxy resin amine hardener vapours (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing "amine asthma". The literature records several instances of systemic intoxications following the use of amines in epoxy resin systems.

Excessive exposure to the vapours of epoxy amine curing agents may cause both respiratory irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure, are headache, dizziness, drowsiness, and incoordination. In short, a single prolonged (measured in hours) or excessive inhalation exposure may cause serious adverse effects, including death.

Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals.

Cutaneous reactions include erythema, intolerable itching and severe facial swelling. Blistering, with weeping of serious fluid, and crusting and scaling may also occur.

Virtually all of the liquid amine curing agents can cause sensitisation or allergic skin reactions.

Individuals exhibiting "amine dermatitis" may experience a dramatic reaction upon re-exposure to minute quantities. Highly sensitive persons may even react to cured resins containing trace amounts of unreacted amine hardener. Minute quantities of air-borne amine may precipitate intense dermatological symptoms in sensitive individuals. Prolonged or repeated exposure may produce tissue necrosis.

NOTE: Susceptibility to this sensitisation will vary from person to person. Also, allergic dermatitis may not appear until after several days or weeks of contact. However, once sensitisation has occurred, exposure of the skin to even very small amounts of the material may cause erythema (redness) and oedema (swelling) at the site. Thus, all skin contact with any epoxy curing agent should be avoided.

Araldite Rapid Hardener #756-	TOXICITY	IRRITATION
0102, 756-0111 (AUS)	Not Available	Not Available
	TOXICITY	IRRITATION
dimethyldipropylenetriamine	Dermal (rabbit) LD50: 1300 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
	Oral (Rat) LD50: 1545 mg/kg ^[1]	Skin: adverse effect observed (corrosive) ^[1]
	TOXICITY	IRRITATION
	dermal (rat) LD50: >973 mg/kg ^[1]	Eye (Rodent - rabbit): 50ug/24H - Severe
	Oral (Rat) LD50: 1200 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
2,4,6-		Skin (Rodent - rabbit): 2mg/24H - Severe
tris[(dimethylamino)methyl]phenol		Skin (Rodent - rabbit): 500uL/24H - Severe
		Skin (Rodent - rat): 0.025mL - Mild
		Skin (Rodent - rat): 0.25mL - Severe
		Skin: adverse effect observed (corrosive) ^[1]

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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Skin allergy was observed in guinea pigs following repeated exposure. No genetic changes were observed in tests using bacteria ** * Hoechst MSDS ** Arkema MSDS The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation.

Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence).

The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs. Therefore prolonged exposure to respiratory irritants may cause sustained breathing difficulties.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

No significant acute toxicological data identified in literature search.

2.4.6-TRIS[(DIMETHYLAMINO)METHYL]PHENOL

DIMETHYL DIPROPYL ENETRIAMINE

Version No: 6.1

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.

DIMETHYLDIPROPYLENETRIAMINE & TRIS[(DIMETHYLAMINO)METHYL]PHENOL

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a nonallergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopi individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

While it is difficult to generalise about the full range of potential health effects posed by exposure to the many different amine compounds, characterised by those used in the manufacture of polyurethane and polyisocyanurate foams, it is agreed that overexposure to the majority of these materials may cause adverse health effects.

- Many amine-based compounds can induce histamine liberation, which, in turn, can trigger allergic and other physiological effects, including bronchoconstriction or bronchial asthma and rhinitis.
- Systemic symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, tachycardia (rapid heartbeat), itching, erythema (reddening of the skin), urticaria (hives), and facial edema (swelling). Systemic effects (those affecting the body) that are related to the pharmacological action of amines are usually transient.

Typically, there are four routes of possible or potential exposure: inhalation, skin contact, eye contact, and ingestion. Inhalation:

Inhalation of vapors may, depending upon the physical and chemical properties of the specific product and the degree and length of exposure, result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs Products with higher vapour pressures have a greater potential for higher airborne concentrations. This increases the probability of worker exposure.

Higher concentrations of certain amines can produce severe respiratory irritation, characterised by nasal discharge, coughing, difficulty in breathing, and chest pains.

Chronic exposure via inhalation may cause headache, nausea, vomiting, drowsiness, sore throat, bronchopneumonia, and possible lung damage. Also, repeated and/or prolonged exposure to some amines may result in liver disorders, jaundice, and liver enlargement. Some amines have been shown to cause kidney, blood, and central nervous system disorders in laboratory

While most polyurethane amine catalysts are not sensitisers, some certain individuals may also become sensitized to amines and may experience respiratory distress, including asthma-like attacks, whenever they are subsequently exposed to even very small amounts of vapor. Once sensitised, these individuals must avoid any further exposure to amines. Although chronic or repeated inhalation of vapor concentrations below hazardous or recommended exposure limits should not ordinarily affect healthy individuals, chronic overexposure may lead to permanent pulmonary injury, including a reduction in lung function, breathlessness, chronic bronchitis, and immunologic lung disease.

Inhalation hazards are increased when exposure to amine catalysts occurs in situations that produce aerosols, mists, or heated vapors. Such situations include leaks in fitting or transfer lines. Medical conditions generally aggravated by inhalation exposure include asthma, bronchitis, and emphysema.

Skin Contact:

Skin contact with amine catalysts poses a number of concerns. Direct skin contact can cause moderate to severe irritation and injury-i.e., from simple redness and swelling to painful blistering, ulceration, and chemical burns. Repeated or prolonged exposure may also result in severe cumulative dermatitis.

Skin contact with some amines may result in allergic sensitisation. Sensitised persons should avoid all contact with amine catalysts. Systemic effects resulting from the absorption of the amines through skin exposure may include headaches, nausea, faintness, anxiety, decrease in blood pressure, reddening of the skin, hives, and facial swelling. These symptoms may be related to the pharmacological action of the amines, and they are usually transient.

Eye Contact:

Amine catalysts are alkaline in nature and their vapours are irritating to the eyes, even at low concentrations.

Direct contact with the liquid amine may cause severe irritation and tissue injury, and the "burning" may lead to blindness. (Contact with solid products may result in mechanical irritation, pain, and corneal injury.)

Exposed persons may experience excessive tearing, burning, conjunctivitis, and corneal swelling.

The corneal swelling may manifest itself in visual disturbances such as blurred or "foggy" vision with a blue tint ("blue haze") and sometimes a halo phenomenon around lights. These symptoms are transient and usually disappear when exposure

Some individuals may experience this effect even when exposed to concentrations below doses that ordinarily cause respiratory irritation.

Ingestion:

The oral toxicity of amine catalysts varies from moderately to very toxic.

Some amines can cause severe irritation, ulceration, or burns of the mouth, throat, esophagus, and gastrointestinal tract.

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Material aspirated (due to vomiting) can damage the bronchial tubes and the lungs.

Affected persons also may experience pain in the chest or abdomen, nausea, bleeding of the throat and the gastrointestinal tract, diarrhea, dizziness, drowsiness, thirst, circulatory collapse, coma, and even death.

Polyurethane Amine Catalysts: Guidelines for Safe Handling and Disposal; Technical Bulletin June 2000

Alliance for Polyurethanes Industry

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	~	STOT - Single Exposure	×
Respiratory or Skin sensitisation	~	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification

✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Araldite Rapid Hardener #756- 0102, 756-0111 (AUS)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	9.22mg/l	2
dimethyldipropylenetriamine	EC50	72h	Algae or other aquatic plants	7.3mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	1.9mg/l	2
	LC50	96h	Fish	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
2,4,6- tris[(dimethylamino)methyl]phenol	EC50	48h	Crustacea	>100mg/l	2
	EC50	72h	Algae or other aquatic plants	2.8mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	~1.13mg/l	2
	LC50	96h	Fish	>100mg/l	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyldipropylenetriamine	HIGH	HIGH
2,4,6- tris[(dimethylamino)methyl]phenol	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
dimethyldipropylenetriamine	LOW (LogKOW = -0.47)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.77)

Mobility in soil

Ingredient	Mobility
dimethyldipropylenetriamine	LOW (Log KOC = 479.2)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (Log KOC = 15130)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.

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- ► Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
dimethyldipropylenetriamine	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dimethyldipropylenetriamine	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020
HSR002644	Polymers Subsidiary Hazard Group Standard 2020
HSR002647	Reagent Kits Group Standard 2020
HSR002648	Refining Catalysts Group Standard 2020
HSR002653	Solvents Subsidiary Hazard Group Standard 2020
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020
HSR002552	Cosmetic Products Group Standard 2020
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020

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HSR Number	Group Standard
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020
HSR002573	Fire Fighting Chemicals Group Standard 2021
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020
HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020
HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

dimethyldipropylenetriamine is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

2,4,6-tris[(dimethylamino)methyl]phenol is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non- Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (dimethyldipropylenetriamine; 2,4,6-tris[(dimethylamino)methyl]phenol)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (dimethyldipropylenetriamine)		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

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Initial Date

24/06/2016

SDS Version Summary

Version	Date of Update	Sections Updated	
5.1	10/03/2023	Classification change due to full database hazard calculation/update.	
6.1	04/07/2025	Classification change due to full database hazard calculation/update.	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ► IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ► TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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