

RS Components

Chemwatch: 5174-00 Version No: 9.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 10/03/2023 Print Date: 17/01/2024 L.GHS.AUS.EN

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

Product Identifier

Product name	Loctite 511 #330-3936
Chemical Name	Not Applicable
Synonyms	Not Available
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 Adhesive.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	RS Components	RS Components
Address	25 Pavesi Street Smithfield NSW 2164 Australia	PO Box 12-127 Penrose, Auckland New Zealand
Telephone	+1 300 656 636	+64 27 4747122
Fax	+1 300 656 696	+64 9 579 1700
Website	www.au.rs-online.com	www.nz.rs-online.com
Email	SupportAU@rs.rsgroup.com	Not Available

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	+61 1800 951 288	
Other emergency telephone numbers	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Chemwatch Hazard Ratings



Poisons Schedule	Not Applicable	
Classification ^[1]	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1B, Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Page 2 of 14

Issue Date: 10/03/2023 Print Date: 17/01/2024 Loctite 511 #330-3936

Hazard pictogram(s)





Signal word	Da

anger

Hazard statement(s)

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H412	Harmful to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P280	ear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P305+P351+P338	P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

Precautionary statement(s) Storage

P405 Store locked up.

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
688-84-6	5-<10	2-ethylhexyl methacrylate
112-30-1	5-<10	1-decanol
80-15-9	1-<3	cumyl hydroperoxide
110-16-7	0.1-<1	maleic acid
114-83-0	0.1-<1	acetylphenylhydrazine
123-26-2	0.1-<1	ethylenebis-12-hydroxystearamide
80-62-6	0.1-<1	methyl methacrylate
130-15-4	0.01-<0.1	1,4-naphthoquinone
68611-44-9	NotSpec	silica amorphous
9002-88-4	NotSpec	polyethylene
Not Available	balance	Ingredients determined not to be hazardous
Legend:	Classified by Chemwatch; 2. C Classification drawn from C&L *	lassification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. EU IOELVs 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.

Chemwatch: 5174-00 Page 3 of 14 Issue Date: 10/03/2023 Version No: 9.1 Print Date: 17/01/2024

Loctite 511 #330-3936

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, without delay.
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

- Alcohol stable foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide

Special hazards arising from the substrate or mixture

Fire Incompatibility	• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
vice for firefighters	
Fire Fighting	 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 courses. Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	 ▶ 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). Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

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 contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- 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

Version No: 9.1 Loctite 511 #330-3936

Page 4 of 14 Issue Date: 10/03/2023 Print Date: 17/01/2024

Other information

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- ▶ Store away from incompatible materials and foodstuff containers.

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.

- are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.
- reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen
- Storage incompatibility
 - react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium
 - ▶ should not be heated above 49 deg. C. when in contact with aluminium equipment

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	methyl methacrylate	Methyl methacrylate	50 ppm / 208 mg/m3	416 mg/m3 / 100 ppm	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Silica gel	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Fume (thermally generated)(respirable dust)	2 mg/m3	Not Available	Not Available	(e) Containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica amorphous	Silica, fused	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Diatomaceous earth (uncalcined)	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Precipitated silica	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
1-decanol	1.8 mg/m3	19 mg/m3	140 mg/m3
cumyl hydroperoxide	0.15 ppm	1.6 ppm	9.7 ppm
maleic acid	2.1 mg/m3	23 mg/m3	140 mg/m3
methyl methacrylate	Not Available	Not Available	Not Available
1,4-naphthoquinone	0.57 mg/m3	6.3 mg/m3	38 mg/m3
silica amorphous	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	18 mg/m3	740 mg/m3	4,500 mg/m3
polyethylene	16 mg/m3	170 mg/m3	1,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
2-ethylhexyl methacrylate	Not Available	Not Available
1-decanol	Not Available	Not Available
cumyl hydroperoxide	Not Available	Not Available
maleic acid	Not Available	Not Available
acetylphenylhydrazine	Not Available	Not Available
ethylenebis- 12-hydroxystearamide	Not Available	Not Available
methyl methacrylate	1,000 ppm	Not Available
1,4-naphthoquinone	Not Available	Not Available
silica amorphous	3,000 mg/m3	Not Available
polyethylene	Not Available	Not Available

Page 5 of 14 Issue Date: 10/03/2023 Version No: 9.1 Print Date: 17/01/2024

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2-ethylhexyl methacrylate	E	≤ 0.1 ppm	
1-decanol	E	≤ 0.1 ppm	
cumyl hydroperoxide	E	≤ 0.1 ppm	
maleic acid	E	≤ 0.01 mg/m³	
acetylphenylhydrazine	E	≤ 0.01 mg/m³	
ethylenebis- 12-hydroxystearamide	E	≤ 0.01 mg/m³	
1,4-naphthoquinone	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

MATERIAL DATA

NOTE D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed on Annex I

When they are placed on the market in a non-stabilised form, the label must state the name of the substance followed by the words "non-stabilised" European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

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.

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a

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.

Individual protection measures, such as personal protective equipment







range of exposure concentrations that are expected to protect worker health.



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.

Skin protection

See Hand protection below

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

Hands/feet protection

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.

Body protection

See Other protection below

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalentl
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

Other protection

- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Overalls.
- P.V.C apron.
- Barrier cream.
- Skin cleansing cream

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 computergenerated selection:

Loctite 511 #330-3936

Material	СРІ
BUTYL	С
NATURAL RUBBER	С

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	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2

Page 6 of 14 Issue Date: 10/03/2023 Print Date: 17/01/2024

NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
PVC	С
TEFLON	С

^{*} CPI - Chemwatch Performance Index

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.

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

information on basic physical	and chemical properties		
Appearance	White paste with an alcohol-like odour; does not mix with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.05
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)	>100	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)	<5 (VOC)
Vapour pressure (kPa)	<0.4 @20C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	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

•	
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial 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.

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

Chemwatch: 5174-00 Version No: 9.1

Loctite 511 #330-3936

Issue Date: 10/03/2023 Print Date: 17/01/2024

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.

Eve

Evidence exists, or practical experience predicts, that the material may cause 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. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. 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.

On the basis, primarily, of animal experiments, the material may be regarded as carcinogenic to humans. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in cancer on the basis of:

Chronic

appropriate long-term animal studiesother relevant information

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Respiratory sensitisation may result in allergic/asthma like responses; from coughing and minor breathing difficulties to bronchitis with wheezing, gasping.

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.

L + + - 544 #020 2020	TOXICITY	IRRITATION
Loctite 511 #330-3936	Not Available	Not Available
	TOXICITY	IRRITATION
2-ethylhexyl methacrylate	dermal (guinea pig) LD50: >17700 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]
	Oral (Mouse) LD50; 2152 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1660 mg/kg ^[1]	Eye (rabbit): 500 mg/24h - mild
4 decemb	Inhalation(Rat) LC50: >0.237 mg/l4h ^[1]	Eye (rabbit): 83 mg - SEVERE
1-decanol	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin (human): 75 mg/3d-l- SEVERE
		Skin (rabbit): 20 mg/24h - mod
		Skin (rabbit): 2600 mg/kg/24h-mod
	TOXICITY	IRRITATION
	dermal (rat) LD50: 500 mg/kg ^[2]	Eye (rabbit): 1 mg
cumyl hydroperoxide	Inhalation(Rat) LC50: 220 ppm4h ^[2]	Skin (rabbit): 500 mg - mild
	Oral (Rat) LD50: 382 mg/kg ^[2]	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 1560 mg/kg ^[2]	Eye (rabbit): 1% / 2m SEVERE
	Inhalation(Rat) LC50: >0.18 mg/L4h ^[2]	Eye (rabbit): 100 mg - SEVERE
maleic acid	Oral (Rat) LD50: 708 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
		Skin (rabbit): 500 mg/24h-SEVERE
		Skin: adverse effect observed (corrosive) ^[1]
	TOXICITY	IRRITATION
acetylphenylhydrazine	Oral (Mouse) LD50; 270 mg/kg ^[2]	Not Available
	TOXICITY	IRRITATION
ethylenebis- 12-hydroxystearamide	Inhalation(Rat) LC50: >4.88 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
12-nydroxystearamide	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]

Chemwatch: 5174-00
Version No: 9.1

Page 8 of 14 Loctite 511 #330-3936

Issue Date: **10/03/2023**Print Date: **17/01/2024**

methyl methacrylate	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Eye (rabbit): 150 mg	
	Inhalation(Rat) LC50: 29.8 mg/l4h ^[1]	Skin (rabbit): 10000 mg/kg (open)	
	Oral (Rat) LD50: 7872 mg/kg ^[2]		
	TOXICITY	IRRITATION	
	dermal (rat) LD50: 202 mg/kg ^[2]	Skin: adverse effect observed (corrosive) ^[1]	
1,4-naphthoquinone	Inhalation(Rat) LC50: 0.046 mg/l4h ^[1]	Skin: adverse effect observed (irritating) ^[1]	
	Oral (Rat) LD50: 190 mg/kg ^[2]		
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): non-irritating ** [Grace]		
silica amorphous	Inhalation(Rat) LC50: >0.09<0.84 mg/l4h ^[1] Eye: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >1000 mg/kg ^[1]	Skin (rabbit): non-irritating *	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
polyethylene	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available	
	Oral (Rat) LD50: >2000 mg/kg ^[1]		
Legend:	Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effective	s - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise act of chemical Substances	
1-DECANOL	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. For alkyl alcohols C6-13: This group of products are very similar in terms of physicochemical and toxicological properties. Interpolation of data can be used to assess the alkyl alcohols for which data is not available. Acute toxicity: All of these alcohols have a low order of toxicity in rats via the oral route. The LD50 for C6-branched and linear alcohols were >3700 mg/kg; LD50s for the C6-8, C7-9, C8-10, C9-11 and C11-14 branched alkyl alcohols were all >2000 mg/kg. Subchronic toxicity: Repeat dose studies indicate these alcohols have a low order of subchronic toxicity by both the oral and dermal route.		
CUMYL HYDROPEROXIDE	Bacterial cell mutagen Equivocal tumorigen by RTECS criteria The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
MALEIC ACID	Tremor, convulsions, muscle weakness, ulceration with bleeding from the stomach recorded		
ACETYLPHENYLHYDRAZINE	Tumorigenic - Neoplastic by RTECS criteria.		
ETHYLENEBIS- 12-HYDROXYSTEARAMIDE	No significant acute toxicological data identified in literature search. Fatty acid amides (FAA) are ubiquitous in household and commercial environments. The most common of these are based on coconut oil fatty acids alkanolamides. These are the most widely studied in terms of human exposure. Fatty acid diethanolamides (C8-C18) are classified by Comite Europeen des Agents de Surface et de leurs Intermediaires Organiques (CESIO) as Irritating (Xi) with the risk phrases R38 (Irritating to skin) and R41 (Risk of serious damage to eyes). Fatty acid monoethanolamides are classified as Irritant (Xi) with the risk phrases R41 Several studies of the sensitization potential of cocoamide diethanolamide (DEA) indicate that this FAA induces occupational allergic contact dermatitis and a number of reports on skin allergy patch testing of cocoamide DEA have been published. For Fatty Nitrogen Derived (FND) Amides (including several high molecular weight alkyl amino acid amides) The chemicals in the Fatty Nitrogen Derived (FND) Amides of surfactants are similar to the class in general as to physical/chemical properties, environmental fate and toxicity. Human exposure to these chemicals is substantially documented.		
	The Fatty nitrogen-derived amides (FND amides) comprise four categories: Subcategory I: Substituted Amides Subcategory II: Fatty Acid Reaction Products with Amino Compounds (Note: Subcategory II chemicals, in many cases, contain Subcategory I chemicals as major components) Subcategory III: Imidazole Derivatives Subcategory IV: FND Amphoterics Acute Toxicity: The low acute oral toxicity of the FND Amides is well established across all Subcategories by the available data. The limited acute toxicity of these chemicals is also confirmed by four acute dermal and two acute inhalation studies. Repeated Dose and Reproductive Toxicity: Two subchronic toxicity studies demonstrating low toxicity are available for Subcategory I chemicals. In addition, a 5-day repeated dose study for a third chemical confirmed the minimal toxicity of these chemicals.		
METHYL METHACRYLATE	Inhalation (human) TCLo: 60 mg/m3(15 ppm) [* Manuf. Rohm & Haas] For methyl methacrylate: Acute toxicity: MMA is rapidly absorbed after oral or inhalatory administration. In vitro skin absorption studies in human skin indicate that MMA can be absorbed through human skin. After inhalation to rats 10 to 20% of the substance is deposited in the upper respiratory tract where it is metabolised by local tissue esterases. Acute toxicity of MMA by the oral, dermal, and inhalative routes is low as judged by tests with different species: The oral LD50 for rats, mice, and rabbits is found to exceed 5000 mg/kg bw. Acute inhalation toxicity for rats and mice is described by LC50 values of > 25 mg/l/4 hours.		

Page 9 of 14 Issue Date: 10/03/2023 Print Date: 17/01/2024

Acute dermal toxicity is reported for rabbits to exceed 5000 mg/kg bw. Skin and respiratory irritation are reported for subjects exposed to monomeric MMA Somnolence, dyspnae, tumors, maternal effects recorded. Equivocal tumorigen by RTECS criteria. Active as anti-cancer agent. Biologically active naphthoquinones readily pass through the cellular membranes where their electrophilicity enables them to conjugate with other compounds. This reaction has been implicated in the toxicity of quinones. Nucleophilic targets include thiol groups which results in inhibition of enzymes such as parvulin-like peptidyl-prolyl cis/trans isomerases, glutathione-S-transferase and cardiac sarcoplasmic reticulum Ca2+ ATPase The toxicity of quinone compounds has been extensively studied and is generally accepted to be a function of (a) the capacity of quinones to 1.4-NAPHTHOQUINONE produce oxygen free radicals and (b) the electrophilicity of quinones, which enables them to form adducts to cellular macromolecules. In vitro experiments designed to examine the relative rates of enzymatic single-electron reduction demonstrated that naphthoquinones, especially juglone, undergo rapid single-electron reduction. Unsubstituted naphthoquinones generally do not show mutagenicity in the Salmonella mutation assay in the presence or absence of S-9 metabolic activation. However, substituted naphthoquinones containing one or more hydroxyl groups and/or methoxyl groups have been shown to be mutagenic in S. Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. SILICA AMORPHOUS In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. polyethylene pyrolyzate For poly-alpha-olefins (PAOs): PAOs are highly branched isoparaffinic chemicals produced by oligomerisation of 1-octene, 1-decene, and/or 1-dodecene. The crude polyalphaolefin mixture is then distilled into appropriate product fractions to meet specific viscosity specifications and hydrogenated. Read across data exist for health effects endpoints from the following similar hydrogenated long chain branched alkanes derived from a C8, C10, and/or C12 alpha olefins: ▶ Decene homopolymer **POLYETHYLENE** Decene/dodecene copolymer Octene/decene/dodecene copolymer Dodecene trimer The data for these structural analogs demonstrated no evidence of health effects. In addition, there is evidence in the literature that alkanes with 30 or more carbon atoms are unlikely to be absorbed when administered orally. The physicochemical data suggest that it is unlikely that significant absorption will occur. Inclusion of polyethylene in the diet of rats at 8 g/kg/day did not result in treatment-related effects. Polyethylene implanted into rats and mice has reportedly caused local tumorigenic activity at doses of 33 to 2120 mg/kg, but the relevance to human exposure is not certain. 2-ETHYLHEXYL **METHACRYLATE & MALEIC** ACID & The following information refers to contact allergens as a group and may not be specific to this product. **ACETYLPHENYLHYDRAZINE** Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact & ETHYLENEBISeczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, 12-HYDROXYSTEARAMIDE & involve antibody-mediated immune reactions. **METHYL METHACRYLATE &** 1,4-NAPHTHOQUINONE 2-ETHYLHEXYL METHACRYLATE & CUMYL Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition **HYDROPEROXIDE & MALEIC** known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main ACID & criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent ACETYLPHENYLHYDRAZINE asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible & ETHYLENEBISairflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal 12-HYDROXYSTEARAMIDE & lymphocytic inflammation, without eosinophilia. **METHYL METHACRYLATE &** 1.4-NAPHTHOQUINONE Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53 2-ETHYLHEXYL Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38 **METHACRYLATE & METHYL** Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental **METHACRYLATE** Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing. This position has now been revised and acrylates and methacrylates are no longer de facto carcinogens. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of **CUMYL HYDROPEROXIDE &** dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the MALEIC ACID spongy layer (spongiosis) and intracellular oedema of the epidermis. **METHYL METHACRYLATE &** The substance is classified by IARC as Group 3: SILICA AMORPHOUS & NOT classifiable as to its carcinogenicity to humans. POLYETHYLENE Evidence of carcinogenicity may be inadequate or limited in animal testing. **Acute Toxicity** Carcinogenicity × Skin Irritation/Corrosion Reproductivity × Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin STOT - Repeated Exposure v × sensitisation • Mutagenicity **Aspiration Hazard**

Legend:

Material Description of the control of the contr

Data available to make classification

Page **10** of **14**

Loctite 511 #330-3936

Issue Date: 10/03/2023 Print Date: 17/01/2024

Toxicity

	Endpoint	Test Duration (hr)	Species		Value	Source
Loctite 511 #330-3936	Not		-		Not	Not
	Available	Not Available	Not Available		Available	Availabl
2-ethylhexyl methacrylate	Endpoint	Test Duration (hr)	Species		Value	Sourc
	EC50	72h	Algae or other aquatic plants		7.68mg/l	2
	EC50	48h	Crustacea		0.85mg/l	2
	LC50	96h	Fish		1.78mg/l	2
	NOEC(ECx)	504h	Crustacea		0.105mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants		0.02mg/l	2
	EC50	48h	Crustacea		>0.01mg/l	2
1-decanol	EC50	96h	Algae or other aquatic plants		>0.047mg/L	2
	LC50	96h	Fish		>0.01mg/l	2
	NOEC(ECx)	1440h	Fish		>=0.001mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	48h	Crustacea		18.84mg/l	2
cumyl hydroperoxide	NOEC(ECx)	96h	Fish		<0.64mg/l	4
	LC50	96h	Fish		3.9mg/l	2
	Endneint	Toot Duration (hr)	Species	Va	lue	Source
	Endpoint EC50	Test Duration (hr) 72h	Species Algae or other aquatic plants		.17mg/l	2
	EC50	48h	Crustacea		.81mg/l	2
maleic acid	LC50	96h	Fish		101-12.9mg/L	Not
	EC10(ECx)	72h	Algae or other aquatic plants		5mg/l	Availab 2
		ı	1 - 1	ı ı	-	
acetylphenylhydrazine	Endpoint	Test Duration (hr)	Species		Value	Source
acetyiphenymyurazine	Not Available	Not Available	Not Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species		Value	Source
ethylenebis- 12-hydroxystearamide	Not Available	Not Available	Not Available		Not Available	Not Availab
	Endneint	Test Direction (hw)	Punnian		Value	Carre
	Endpoint EC50	Test Duration (hr) 72h	Species		Value	Source 2
			Algae or other aquatic plants Crustacea		>110mg/l	
methyl methacrylate	EC50	48h			69mg/l	1
	EC50	96h	Algae or other aquatic plants		170mg/l	1
	EC0(ECx)	96h	Crustacea Fish		48mg/l >79mg/l	2
	Enderstot	Took Duresting (ha)	0			
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants Crustacea		0.42mg/l	2
1,4-naphthoquinone	EC50 LC50	48h 96h	Fish		0.026mg/l 3.5mg/l	Not
	EC50(ECx)	48h	Crustacea		0.026mg/l	Availab 2
	Endnoint	Toet Duration (hr)	Species		Value	Source
	Endpoint EC50	Test Duration (hr) 72h	Species Algae or other aquatic plants		14.1mg/l	2
	EC50	48h	Crustacea		>86mg/l	2
silica amorphous						2
	EC50	96h	Algae or other aquatic plants		217.576mg/l	_
	EC0(ECx)	96h 24h	Fish Crustacea		1033.016mg/l >=10000mg/l	1
		Test Duration (hr)	Cracica	<u>'</u>	Value	Source
	Endpoint		Species			
polyethylene	Endpoint Not	Not Available	Species Not Available		Not	Not

Page **11** of **14**

Issue Date: 10/03/2023 Print Date: 17/01/2024

- 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
2-ethylhexyl methacrylate	LOW	LOW
1-decanol	LOW	LOW
cumyl hydroperoxide	LOW (Half-life = 56 days)	LOW (Half-life = 5.42 days)
maleic acid	LOW	LOW
acetylphenylhydrazine	HIGH	HIGH
methyl methacrylate	LOW	LOW
1,4-naphthoquinone	LOW	LOW
silica amorphous	LOW	LOW
polyethylene	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
2-ethylhexyl methacrylate	HIGH (LogKOW = 4.54)
1-decanol	HIGH (LogKOW = 4.57)
cumyl hydroperoxide	LOW (BCF = 35.5)
maleic acid	LOW (BCF = 11)
acetylphenylhydrazine	LOW (LogKOW = 0.7365)
methyl methacrylate	LOW (BCF = 6.6)
1,4-naphthoquinone	LOW (LogKOW = 1.71)
silica amorphous	LOW (LogKOW = 0.5294)
polyethylene	LOW (LogKOW = 1.2658)

Mobility in soil

Ingredient	Mobility
2-ethylhexyl methacrylate	LOW (KOC = 677)
1-decanol	LOW (KOC = 96.17)
cumyl hydroperoxide	LOW (KOC = 2346)
maleic acid	LOW (KOC = 6.314)
acetylphenylhydrazine	LOW (KOC = 70.29)
methyl methacrylate	LOW (KOC = 10.14)
1,4-naphthoquinone	LOW (KOC = 16.05)
silica amorphous	LOW (KOC = 23.74)
polyethylene	LOW (KOC = 14.3)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options.
- 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.

SECTION 14 Transport information

Labels Required

Educio Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Land transport (ADG): 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

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

Not Applicable

Page **12** of **14**

Loctite 511 #330-3936

Issue Date: 10/03/2023 Print Date: 17/01/2024

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

Product name	Group
2-ethylhexyl methacrylate	Not Available
1-decanol	Not Available
cumyl hydroperoxide	Not Available
maleic acid	Not Available
acetylphenylhydrazine	Not Available
ethylenebis- 12-hydroxystearamide	Not Available
methyl methacrylate	Not Available
1,4-naphthoquinone	Not Available
silica amorphous	Not Available
polyethylene	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2-ethylhexyl methacrylate	Not Available
1-decanol	Not Available
cumyl hydroperoxide	Not Available
maleic acid	Not Available
acetylphenylhydrazine	Not Available
ethylenebis- 12-hydroxystearamide	Not Available
methyl methacrylate	Not Available
1,4-naphthoquinone	Not Available
silica amorphous	Not Available
polyethylene	Not Available

SECTION 15 Regulatory information

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

2-ethylhexyl methacrylate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

1-decanol is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

cumyl hydroperoxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

maleic acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

acetylphenylhydrazine is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

ethylenebis-12-hydroxystearamide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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

methyl methacrylate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

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

1,4-naphthoquinone is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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

silica amorphous is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

Page 13 of 14 Issue Date: 10/03/2023

Print Date: 17/01/2024

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)

polyethylene is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (2-ethylhexyl methacrylate; 1-decanol; cumyl hydroperoxide; maleic acid; acetylphenylhydrazine; ethylenebis-12-hydroxystearamide; methyl methacrylate; 1,4-naphthoquinone; polyethylene)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (polyethylene)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (2-ethylhexyl methacrylate; acetylphenylhydrazine; ethylenebis-12-hydroxystearamide)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (ethylenebis-12-hydroxystearamide)	
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	19/04/2015

SDS Version Summary

Version	Date of Update	Sections Updated
8.1	20/08/2021	Classification change due to full database hazard calculation/update.
9.1	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

- ▶ 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
- 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

Chemwatch: 5174-00 Page **14** of **14** Issue Date: 10/03/2023 Version No: 9.1 Print Date: 17/01/2024

Loctite 511 #330-3936

- ▶ 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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.