



SAFETY DATA SHEET
5 Minute Epoxy I-FR Resin

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME 5 Minute Epoxy I-FR Resin
 SUPPLIER ITW DEVCON
 BAY 150
 SHANNON INDUSTRIAL ESTATE
 SHANNON
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2 HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact.
 CLASSIFICATION (1999/45) Xi;R36/38. R43.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
Reaction product of Epichlorohydrin & Bisphenol A	500-033-5	25085-99-8	60-100%	Xi;R36,R38. N;R51/53. R43.
TITANIUM DIOXIDE	236-675-5	13463-67-7	1-5%	-

The Full Text for all R-Phrases is Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

INHALATION

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Never give liquid to an unconscious person.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Use water SPRAY only to cool containers! Do not put water on leaked material.

UNUSUAL FIRE & EXPLOSION HAZARDS

Heat may cause the containers to explode.

PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator during fire fighting. Wear full protective clothing.

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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

If leakage cannot be stopped, evacuate area. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wear necessary protective equipment. Avoid contact with skin or inhalation of spillage, dust or vapour.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of vapours.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
TITANIUM DIOXIDE		10 mg/m3 total dust		

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory protection must be used if air contamination exceeds acceptable level. Chemical respirator with organic vapour cartridge and full facepiece.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

OTHER PROTECTION

Provide eyewash, quick drench.

HYGIENE MEASURES

Observe good chemical hygiene practices.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid.
RELATIVE DENSITY	1.28
VISCOSITY	54000 cP
FLASH POINT (°C)	204.4 PM Closed cup.

10 STABILITY AND REACTIVITY

5 Minute Epoxy I-FR Resin

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid exposing to heat and contact with strong oxidising substances.

HAZARDOUS POLYMERISATION

Not relevant

MATERIALS TO AVOID

Strong acids. Bases, alkalis (organic). Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

INHALATION

May cause irritation to the respiratory system. Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

INGESTION

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

SKIN CONTACT

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy. Prolonged contact may cause redness and irritation.

EYE CONTACT

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of corneal damage.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Eyes Gastro-intestinal tract Skin Respiratory system, lungs

MEDICAL SYMPTOMS

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

MEDICAL CONSIDERATIONS

Skin disorders and allergies.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ENVIRONMENTALLY

No.

HAZARDOUS

SUBSTANCE/MARINE

POLLUTANT

15 REGULATORY INFORMATION

LABELLING

5 Minute Epoxy I-FR Resin



Irritant

CONTAINS

Reaction product of Epichlorohydrin & Bisphenol A

RISK PHRASES

R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.

16 OTHER INFORMATION

REVISION DATE 14/04/2010

REV. NO./REPL. SDS GENERATED 3

RISK PHRASES IN FULL

R36/38 Irritating to eyes and skin.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
NC Not classified.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



SAFETY DATA SHEET 5-MINUTE EPOXY HARDENER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name 5-MINUTE EPOXY HARDENER
Product No. X0040

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

Identified uses Hardener.

1.3. Details of the supplier of the safety data sheet

Supplier ITW DEVCON
BAY 150
SHANNON INDUSTRIAL ESTATE
SHANNON
CO CLARE
IRELAND
T: +353 (0)61471299
F: 353(0)61471285
info@itwippe.eu

1.4. Emergency telephone number

+44 (0) 1235 239670

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R22. Xi;R36/38.

2.2. Label elements

Labelling



Harmful

Risk Phrases

R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	10-30%
CAS-No.: 90-72-2	EC No.: 202-013-9

5-MINUTE EPOXY HARDENER

Classification (EC 1272/2008)

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Classification (67/548/EEC)

Xn;R22

Xi;R36/38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Inhalation

Move the exposed person to fresh air at once. Contact physician if discomfort continues.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting. Drink plenty of water. Get medical attention.

Skin contact

Remove affected person from source of contamination. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Contact physician if irritation persists.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using: Water spray. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Avoid breathing fire vapours.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out.

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Do not allow ANY environmental contamination. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Dam and absorb spillages with sand, earth or other non-combustible material. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

5-MINUTE EPOXY HARDENER

7.1. Precautions for safe handling

Use only in well-ventilated areas. Eliminate all sources of ignition. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from: Oxidising material.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use protective gloves. Nitrile gloves are recommended. Butyl rubber gloves are recommended.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Amber.
Odour	Amine.
Solubility	Insoluble in water
Relative density	1, 130g/cm ³ 20 °C
Vapour pressure	<0.01mmHg 20
pH-Value, Conc. Solution	9.5 @ 20 °C
Viscosity	13, 000 mPas 25
Flash point (°C)	>100

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Strong oxidising agents. Amines.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

5-MINUTE EPOXY HARDENER

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Avoid exposing to heat and contact with strong oxidising substances.

10.5. Incompatible materials

Materials To Avoid

Avoid contact with oxidising agents. Amines.

10.6. Hazardous decomposition products

Fire or high temperatures create: Nitrous gases (NO_x). Oxides of: Carbon monoxide (CO). Carbon dioxide (CO₂). Vapours/gases/fumes of: Ammonia or amines.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 >2, 000 mg/kg (oral rat)

Toxic Conc. - LC 50 >0.5

Ingestion

Harmful if swallowed.

Skin contact

Slightly irritating. Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

Irritating to eyes.

Name	2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL
Toxic Dose 1 - LD 50	1670 mg/kg (oral rat)
Toxic Conc. - LC 50	>0.5 ppm/-- (ihl-rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground.

12.1. Toxicity

Acute Fish Toxicity

Not considered toxic to fish.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

Do not discharge into drains, water courses or onto the ground.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

5-MINUTE EPOXY HARDENER

Waste Class

08 04 99

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

ICAO Packing group II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

No information required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

SECTION 15: REGULATORY INFORMATION

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

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 1

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date 12/08/2011

Revision 15

Supersedes date 22/04/2011

Date 20/07/2011

Risk Phrases In Full

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

Hazard Statements In Full

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Disclaimer

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