

SAFETY DATA SHEET

PRONTOFIX RESIN



Section 1. Identification

Product name : PRONTOFIX RESIN
Cat. No. : 40200109, 50209128
Container size : 1 l
Other means of identification : Not available.
Product type : Liquid.

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

Product use : For embedding and impregnation of materialographic specimens
Area of application : Professional applications.

Supplier's details : Struers Australia
27 Mayneview Street
Milton QLD 4064, Australia

Telephone: +61 7 3512 9600

e-mail address of person responsible for this SDS : sdsquestions@struers.dk
Emergency telephone number (with hours of operation) : National Poisons Centre: 0800 764 766 (24/7)

Section 2. Hazards identification

HSNO Classification : H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2
H317 SKIN SENSITISATION - Category 1
H360 REPRODUCTIVE TOXICITY - Category 1
H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Danger
Hazard statements : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H360 - May damage fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.

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Section 2. Hazards identification

Precautionary statements

General	: Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.
Prevention	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P273 - Avoid release to the environment. P261 - Avoid breathing vapour. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	: P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	: 

Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	% (w/w)	Identifiers
bis-[4-(2,3-epoxipropoxy)phenyl]propane	≥60 - ≤75	CAS: 1675-54-3
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	≥10 - ≤25	CAS: 68609-97-2
Bisphenol F diglycidyl ether, reaction mass of isomers	≥10 - ≤25	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Section 4. First aid measures

Description of necessary first aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye irritation.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations



Section 4. First aid measures

Eyes : Adverse symptoms may include the following:
pain or irritation
watering
redness

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments : No specific treatment.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Not suitable : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds

Hazchem code : 3Z

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: Butyl rubber gloves. The breakthrough time must be greater than the end use time of the product.



Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : >200°C (>392°F)
- Flash point** : Closed cup: >94°C (>201.2°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	0.00013	0.000017	OECD 104			

- Relative vapour density** : Not available.
- Relative density** : Not available.
- Density** : 1.09 g/cm³
- Solubility(ies)** :

Media	Result
water	Not soluble

- Solubility in water** : Not available.
- Miscible with water** : No.



Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): 300 to 440 mPa·s (300 to 440 cP) Kinematic (room temperature): 275 to 403.7 mm ² /s (275 to 403.7 cSt) Kinematic (40°C (104°F)): Not available.
Flow time (ISO 2431)	: Not available.
<u>Particle characteristics</u>	
Median particle size	: Not applicable.
<u>Other information</u>	
Physical/chemical properties comments	: No additional information.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	: Sodium hydroxide can induce vigorous polymerisation at temperatures around 200 °C.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials and acids. Sodium hydroxide, Bases, water, amines, Ammonia. Alcohol.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Dermal - LD50 20 g/kg	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	Rat - Oral - LD50 11400 mg/kg Rat - Oral - LD50 17100 mg/kg Rabbit - Dermal - LD50 >4000 mg/kg	
Bisphenol F diglycidyl ether, reaction mass of isomers	Rat - Male, Female - Oral - LD50 >2000 mg/kg Rabbit - Male, Female - Dermal - LD50 >2000 mg/kg	OECD 401 [Acute Oral Toxicity] OECD 402 [Acute Dermal Toxicity]

Conclusion/Summary[Product] : Not available.

Skin corrosion/irritation

Product/ingredient name	Result
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Section 11. Toxicological information

bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours	
	Rabbit - Skin - Severe irritant Duration of treatment/exposure: 24 hours	
	Rabbit - Skin - Erythema/Eschar Irritation score: 1.5 to 2	OECD 404 [Acute Dermal Irritation/Corrosion]
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	Rabbit - Skin - Oedema Irritation score: 1 to 1.5	OECD 404 [Acute Dermal Irritation/Corrosion]
	Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 uL	Observation period: 72 hours
	Rabbit - Skin - Primary dermal irritation index (PDII) Duration of treatment/exposure: 24 hours Irritation score: 4.1	
Bisphenol F diglycidyl ether, reaction mass of isomers	Rabbit - Skin - Primary dermal irritation index (PDII) Duration of treatment/exposure: 24 hours Irritation score: 5.75	Observation period: 72 hours OECD 404 [Acute Dermal Irritation/Corrosion]
	Rabbit - Skin - Erythema/Eschar Duration of treatment/exposure: 4 hours Irritation score: 0.7	Observation period: 72 hours OECD 404 [Acute Dermal Irritation/Corrosion]
	Rabbit - Skin - Oedema Duration of treatment/exposure: 4 hours Irritation score: 0	Observation period: 4 to 504 hours OECD 404 [Acute Dermal Irritation/Corrosion]
	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours	

Conclusion/Summary[Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Eyes - Irritant	OECD 405 [Acute Eye Irritation/Corrosion]
	Rabbit - Eyes - Redness of the conjunctivae Irritation score: 0.7	
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	Rabbit - Eyes - Cornea opacity Irritation score: 2	Observation period: 1 to 24 hours OECD 405 [Acute Eye Irritation/Corrosion]
	Rabbit - Eyes - Cornea opacity	Observation period: 1 to 168 hours
Bisphenol F diglycidyl ether, reaction		

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mass of isomers

Irritation score: 0

OECD 405 [Acute Eye Irritation/
Corrosion]**Rabbit - Eyes - Iris lesion**

Irritation score: 0

Observation period: 1 to 168 hours

OECD 405 [Acute Eye Irritation/
Corrosion]**Rabbit - Eyes - Oedema of the
conjunctivae**

Irritation score: 0

Observation period: 1 to 168 hours

OECD 405 [Acute Eye Irritation/
Corrosion]

Conclusion/Summary[Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary[Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name**Result**bis-[4-(2,3-epoxipropoxy)phenyl]
propane**Guinea pig - skin**

OECD 406 [Skin Sensitization]

Result: Sensitising**Mouse - skin**OECD 429 [Skin Sensitization: Local
Lymph Node Assay]Result: Sensitisingoxirane, mono[(C12-14-alkyloxy)
methyl] derivs.**Guinea pig - skin**

OECD 406 [Skin Sensitization]

Result: SensitisingBisphenol F diglycidyl ether, reaction
mass of isomers**Guinea pig - skin**Result: Sensitising

Skin

Conclusion/Summary[Product] : Not available.

Respiratory

Conclusion/Summary[Product] : Not available.

Potential chronic health effects

- | | |
|------------------------------|---|
| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Inhalation | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| Skin contact | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Eye contact | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : May damage fertility. |

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Section 11. Toxicological information

Chronic toxicity

Product/ingredient name

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Result
Chronic - Rat - Dermal - NOAEL
 1 mg/kg [5 days per week] [90 days]

OECD 411 [Subchronic Dermal Toxicity: 90-day Study]

Conclusion/Summary[Product]

: Not available.

Carcinogenicity

Product/ingredient name

bis-[4-(2,3-epoxipropoxy)phenyl] propane

Result
Rat - Oral - TC
 100 mg/kg [24 hours]
Result: Negative
Mouse - Male - Dermal - TC
 100 mg/kg [24 hours]
Result: Negative
Rat - Female - Dermal - TC
 1000 mg/kg [24 hours]
Result: Negative

OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]

OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]

OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]

Conclusion/Summary[Product]

: Not available.

Germ cell mutagenicity

Product/ingredient name

bis-[4-(2,3-epoxipropoxy)phenyl] propane

Result
Mammalian-Animal
 >3000 mg/kg [5 days]
Result: Negative
In vitro - Bacteria
Result: Positive
In vivo - Mammalian-Animal
 4 g/kg
Result: Negative
In vivo - Mammalian-Animal
 700 mg/kg
Result: Negative
In vitro - Mammalian-Animal
Result: Negative
In vitro - Mammalian-Animal
Result: Negative

OECD 471 [Bacterial Reverse Mutation Test]

OECD 474 [Mammalian Erythrocyte Micronucleus Test]

OECD 475 [Mammalian Bone Marrow Chromosomal Aberration Test]

OECD 476 [In vitro Mammalian Cell Gene Mutation Test]

OECD 479 [Genetic Toxicology: In vitro Sister Chromatid Exchange Assay in Mammalian Cells]

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Bisphenol F diglycidyl ether, reaction mass of isomers

In vitro - Bacteria
Result: Positive
In vivo - Mammalian-Animal
Result: Negative

Conclusion/Summary[Product]

: Not available.



Section 11. Toxicological information

Reproductive toxicity

Product/ingredient name

bis-[4-(2,3-epoxipropoxy)phenyl]
propane
oxirane, mono[(C12-14-alkyloxy)
methyl] derivs.

Result

Rabbit - Oral

Developmental: Negative

Rat - Oral

10 mg/kg

Fertility effects: Positive

Rat - Dermal

>200 mg/kg - NOAEL

Maternal toxicity: Negative

Developmental: Negative

Bisphenol F diglycidyl ether, reaction
mass of isomers

Rabbit - Dermal

300 mg/kg - NOAEL

Maternal toxicity: Negative

Developmental: Negative

OECD 443 [Extended One-
Generation Reproductive Toxicity
Study]

OECD 414 [Prenatal Developmental
Toxicity Study]

Conclusion/Summary[Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
bis-[4-(2,3-epoxipropoxy)phenyl]propane oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	11400 17100	20000 N/A	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

Ecotoxicity : Not readily biodegradable. This material is toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name

Result

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Section 12. Ecological information

bis-[4-(2,3-epoxipropoxy)phenyl] propane	Acute - LC50 Fish 1.3 mg/l [96 hours]	OECD 203 [Fish, Acute Toxicity Test]
	Acute - EC50 Daphnia - <i>water Flea</i> 2.1 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Acute - EC50 Algae >11 mg/l [72 hours]	
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	Chronic - NOEC Daphnia - <i>water Flea</i> 0.3 mg/l [21 days]	OECD 211 [Daphnia Magna Reproduction Test]
	Acute - NOEC - Fresh water Fish - <i>Oncorhynchus mykiss</i> >100 mg/l [96 hours]	OECD 203 [Fish, Acute Toxicity Test]
	Acute - NOEC - Fresh water Algae - <i>Pseudokirchneriella subcapitata</i> 500 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	Acute - LC50 Fish - <i>Rainbow trout</i> >1800 mg/l [96 hours]	203 [Fish, Acute Toxicity Test]
	Acute - LC50 Fish - <i>Bluegill</i> >5000 mg/l [96 hours]	OECD 203 [Fish, Acute Toxicity Test]
	Acute - EC50 Daphnia - <i>water Flea</i> 7.2 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Acute - EC50 Algae 844 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	EC50 Micro-organism >100 mg/l [3 hours]	OECD 209 [Activated Sludge, Respiration Inhibition Test]
	Acute - LC50 Fish 2.54 mg/l [96 hours]	
	Acute - EC50 Algae >1000 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
Bisphenol F diglycidyl ether, reaction mass of isomers	Acute - EC50 Daphnia 2.55 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]

Conclusion/Summary[Product] : Not available.

Persistence and degradability

Product/ingredient name	Result
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Section 12. Ecological information

bis-[4-(2,3-epoxipropoxy)phenyl]propane	6 to 12% [28 days] - Not readily	OECD 301F [Ready Biodegradability - Manometric Respirometry Test]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Aerobic - 100 mg/l 87% [28 days] - Readily	OECD 301F [Ready Biodegradability - Manometric Respirometry Test]
Bisphenol F diglycidyl ether, reaction mass of isomers	10 mg/l 16% [28 days] - Not readily	OECD 301B [Ready Biodegradability - CO2 Evolution Test]

Conclusion/Summary[Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
PRONTOFIX RESIN	-	-	Not readily
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	-	Not readily
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	-	-	Readily
Bisphenol F diglycidyl ether, reaction mass of isomers	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
bis-[4-(2,3-epoxipropoxy)phenyl]propane	2.64 to 3.78	3 to 31	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	160 to 263	Low
Bisphenol F diglycidyl ether, reaction mass of isomers	3.3	150	Low

Mobility in soil

Soil/water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may
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Section 13. Disposal considerations

retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	New Zealand	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl] propane, Bisphenol F diglycidyl ether, reaction mass of isomers)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl] propane, Bisphenol F diglycidyl ether, reaction mass of isomers)	Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl] propane, Bisphenol F diglycidyl ether, reaction mass of isomers)
Transport hazard class(es)	9  	9  	9  
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.

Additional information

New Zealand

: **Hazchem code** 3Z
Special provisions 274, 331, 335, 363

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Emergency schedules F-A, S-F
Special provisions 274, 335, 375, 969

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Quantity limitation Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.
Special provisions A97, A158, A197, A215

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

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Section 15. Regulatory information

HSNO Approval Number	: HSR002596
HSNO Group Standard	: Laboratory Chemicals and Reagent Kits
HSNO Classification	: H315 SKIN IRRITATION - Category 2 H319 EYE IRRITATION - Category 2 H317 SKIN SENSITISATION - Category 1 H360 REPRODUCTIVE TOXICITY - Category 1 H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

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Date of previous issue	: No previous validation
Version	: 1

Sphera Solutions

Key to abbreviations	: ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
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Section 16. Other information

References

SGG = Segregation Group

UN = United Nations

- : Environmental Protection Authority - Inventory of Chemicals (NZIoC)
- Hazardous Substances Regulations 2001 (Classification, Identification, Minimum Degrees of Hazard)
- Hazardous Substances and New Organisms Act (HSNO) 1996 – Hazardous Substances List
- Health and Safety in Employment Act 1992 - Workplace Exposure Standards and Biological Exposure Indices
- Code of Practice for the Preparation of Safety Data Sheets (SDS)
- Transport of Dangerous Goods on Land (NZS 5433:2020)
- User Guide to the Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996 (GHS)
- GHS - Globally Harmonised System of Classification and Labelling of Chemicals
- International transport regulations

📌 Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

