SAFETY DATA SHEET

Epoxy Primer Grey

FP450

Section 1. Identification

Product name	: Epoxy Primer Grey
Product type	: Liquid.
Relevant identified use	s of the substance or mixture and uses advised against
Supplier's details	: DBNZ Coatings Ltd 176 Ossie James Drive Hamilton Airport 3282 New Zealand T: +64 7847 0944 E: info@dbnz.co.nz
Emergency telephone number (with hours of operation)	: +(64)98010034 (Available 24 hrs / 7 days)
e-mail address of person responsible for this SDS	: info@dbnz.co.nz

Section 2. Hazards identification

HSNO Classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2
	SKIN SENSITISATION - Category 1
	CARCINOGENICITY - Category 1
	REPRODUCTIVE TOXICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

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

This product is classified as DANGEROUS GOODS for transport, according to the New Zealand Standard NZS 5433: 2012 Transport of Dangerous Goods on Land.

GHS label elements	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
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.

Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Take action to prevent static discharges. Ground and bond container and receiving equipment. Keep container tightly closed. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	

result in classification

Other hazards which do not : Please refer to the SDS for additional information. Keep out of reach of children.

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

Product code

: FP450

Ingredient name	% (w/w)	CAS number
Barium Sulfate	≥30 - ≤60	7727-43-7
Epoxy Polymer	≥10 - ≤30	1675-54-3
Titanium Dioxide	≥10 - ≤30	13463-67-7
Acetone	≤10	67-64-1
Epoxy Polymer	≤10	25068-38-6
Zinc Phosphate	≤10	7779-90-0
Talc	≤10	14807-96-6
n-Butyl Acetate	≤5	123-86-4
Xylene, mixed isomers	≤3	1330-20-7
Aluminum Orthophosphate	≤3	7784-30-7
crystalline silica, respirable powder	<1	14808-60-7
Ethylbenzene	<1	100-41-4
Carbon Black	≤0.3	1333-86-4
zinc oxide	≤0.3	1314-13-2

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.

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 necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician.
Most important symptoms/effe	cts, acute and delayed
Potential acute health effects	
Inhalation	May cause damage to organs following a single exposure if inhaled.
Ingestion	May cause damage to organs following a single exposure if swallowed.
Skin contact	May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Over-exposure signs/sympto	<u>ns</u>
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
Eyes	Adverse symptoms may include the following: pain or irritation watering redness
Indication of immediate medic	I attention and special treatment needed, if necessary
	No specific treatment.
	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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Section 4. First aid measures

: 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	1	Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	1	Do not use water jet.
Specific hazards arising from the chemical	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very 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 sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
Hazchem code	1	•3Y
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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.
Matheada and waterial for a statement and all showing on		

Methods and material for containment and cleaning up

Protection of first-aiders

Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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 breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Barium Sulfate	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020).
	WES-TWA: 10 mg/m ³ 8 hours. Form: The
	value for inhalable dust containing no
Tite sizes Disside	asbestos and less than 1% free silica.
Titanium Dioxide	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: The
	value for inhalable dust containing no
	asbestos and less than 1% free silica.
Acetone	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020).
	WES-TWA: 500 ppm 8 hours.
	WES-TWA: 1185 mg/m ³ 8 hours.
	WES-STEL: 2375 mg/m ³ 15 minutes.
	WES-STEL: 1000 ppm 15 minutes.
Talc	ACGIH TLV (United States, 1/2022).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	fraction
n-Butyl Acetate	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). WES-TWA: 150 ppm 8 hours.
	WES-TWA: 150 ppm o hours. WES-TWA: 713 mg/m ³ 8 hours.
	WES-STEL: 950 mg/m ³ 15 minutes.
	WES-STEL: 200 ppm 15 minutes.
Xylene, mixed isomers	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). [Xylene (o-, m-, p-
	isomers)]
	WES-TWA: 50 ppm 8 hours.
	WES-TWA: 217 mg/m ³ 8 hours.
Aluminum Orthophosphate	ACGIH TLV (United States, 1/2022).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction
crystalline silica, respirable powder	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). [silica-crystalline (α -
	quartz and cristobalite)]
	WES-TWA: 0.05 mg/m ³ 8 hours. Form:
	The value for respirable dust.
	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). [Silica-Amorphous:
	Silica gel]
	WES-TWA: 10 mg/m ³ 8 hours.
Ethylbenzene	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). WES-TWA: 100 ppm 8 hours.
	WES-TWA: 100 ppm o hours. WES-TWA: 434 mg/m ³ 8 hours.
	WES-STEL: 543 mg/m ³ 15 minutes.
	WES-STEL: 125 ppm 15 minutes.
Carbon Black	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020).
	WES-TWA: 3 mg/m ³ 8 hours.
zinc oxide	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020).
	WES-TWA: 2 mg/m ³ 8 hours.
	WES-STEL: 5 mg/m ³ 15 minutes.
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Section 8. Exposure controls/personal protection

	WES-TWA: 0.1 mg/m³ 8 hours. Form: The value for respirable dust. WES-STEL: 0.5 mg/m³ 15 minutes. Form: The value for respirable dust.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 meas	<u>ires</u>
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.
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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

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

Appearance

Physical state	: Liquid.
Colour	: Not available.
Odour	: Not available.
Odour threshold	: Not available.
рН	: Not applicable.

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Section 9. Physical and chemical properties

Melting point/freezing point	: 1	Not available.
Boiling point, initial boiling	: {	55°C (131°F)
point, and boiling range		
Flash point		Closed cup: 24°C (75.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: {	5.6 (butyl acetate = 1)
Flammability	: 1	Flammable liquid.
Lower and upper explosion limit/flammability limit		∟ower: 1% Jpper: 12.8%
Vapour pressure		24 kPa (180 mm Hg)
Relative vapour density	: 2	2 [Air = 1]
Relative density	: 1	1.77
Solubility(ies)	:	
Media		Result
cold water		Not soluble
Partition coefficient: n- octanol/water	: 1	Not applicable.
Auto-ignition temperature	: 1	Not available.
Decomposition temperature	: 1	Not available.
Viscosity	: 1	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Aerosol product		
Type of aerosol	: 1	Not applicable.
Heat of combustion	: 4	1.674 kJ/g
Ignition distance	: 1	Not applicable.
Enclosed space ignition - Time equivalent	: 1	Not applicable.
Enclosed space ignition - Deflagration density	: 1	Not applicable.
Flame height	: 1	Not applicable.
Flame duration	: 1	Not applicable.

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.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
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

internation on intery re	
Inhalation	: May cause damage to organs following a single exposure if inhaled.
Ingestion	: May cause damage to organs following a single exposure if swallowed.
Skin contact	: May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the	e physical, chemical and toxicological characteristics
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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy Polymer	LD50 Dermal	Rabbit	20 g/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
-	LD50 Oral	Rat	10768 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
•	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-
Carbon Black	LD50 Oral	Rat	>15400 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy Polymer	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Epoxy Polymer	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	

Section 11. Toxicological information

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Skin - Severe irritant	Rabbit	-	24 hours 2	-
			mg	
Skin - Mild irritant	Human	-	72 hours 300	-
			ug l	
Eyes - Moderate irritant	Rabbit	-	100 mg	-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Mild irritant	Rabbit	-	87 mg	-
Eyes - Severe irritant	Rabbit	-	24 hours 5	-
			mg	
Skin - Mild irritant	Rat	-	8 hours 60 uL	-
Skin - Moderate irritant	Rabbit	-	100 %	-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Severe irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Rabbit	-	24 hours 15	-
			mg	
Eyes - Mild irritant	Rabbit	-	24 hours 500	-
-			mg	
Skin - Mild irritant	Rabbit	-	24 hours 500	-
			mg	
	Skin - Severe irritantSkin - Mild irritantEyes - Moderate irritantSkin - Moderate irritantEyes - Mild irritantEyes - Severe irritantSkin - Mild irritantSkin - Moderate irritantEyes - Severe irritantEyes - Severe irritantEyes - Severe irritantEyes - Mild irritantEyes - Mild irritant	Skin - Severe irritantRabbitSkin - Mild irritantHumanEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitEyes - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantRatSkin - Mild irritantRatSkin - Moderate irritantRatSkin - Mild irritantRatSkin - Moderate irritantRatSkin - Moderate irritantRabbitEyes - Severe irritantRabbitEyes - Severe irritantRabbitEyes - Severe irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbit	Skin - Severe irritantRabbit-Skin - Mild irritantHuman-Eyes - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRat-Skin - Mild irritantRat-Skin - Mild irritantRat-Skin - Mild irritantRat-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Eyes - Severe irritantRabbit-Eyes - Severe irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-	Skin - Severe irritantRabbit-24 hours 2Skin - Mild irritantHuman-72 hours 300Eyes - Moderate irritantRabbit-100 mgSkin - Moderate irritantRabbit-24 hours 500Eyes - Mild irritantRabbit-24 hours 500Eyes - Mild irritantRabbit-87 mgEyes - Severe irritantRabbit-24 hours 5Skin - Mild irritantRat-8 hours 60 uLSkin - Moderate irritantRat-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-24 hours 500MgSkin - Mild irritantRabbit-24 hours 500Skin - Mild irri

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Sensitisation

Not available.

Potential chronic health effects

Potential chronic nearth ei	
General	: May cause damage to organs through prolonged or repeated exposure. 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.
Chronic toxicity	
Not available.	
Carcinogenicity	
Not available.	
Mutagonicity	

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Epoxy Polymer crystalline silica, respirable powder	Category 2 Category 1	dermal inhalation	-
Specific target organ toxicity (repeated expo	sure)		
Product/ingredient name	Category	Route of exposure	Target organs
Epoxy Polymer	Category 2	dermal	-
Benzene, dimethyl- mixed isomers	Category 2	-	-
crystalline silica, respirable powder	Category 1	inhalation	-
Benzene, ethyl-	Category 2	-	-

Aspiration hazard

Name

Xylene, mixed isomers Ethylbenzene

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)
Epoxy Primer	13366.1	35590.7	179106	180.9	N/A
Bis-[4-(2,3-epoxypropoxy)phenyl]propane	N/A	20000	N/A	N/A	N/A
2-Propanone	5800	N/A	N/A	N/A	N/A
Acetic acid, butyl ester	10768	N/A	N/A	11	N/A
Benzene, dimethyl- mixed isomers	500	1100	6700	N/A	N/A
Benzene, ethyl-	3500	N/A	N/A	11	N/A

Section 12. Ecological information

: This material is very toxic to aquatic life with long lasting effects.

Ecotoxicity Aquatic and terrestrial toxicity

Product/ingredient name Result **Species** Exposure **Barium Sulfate** Crustaceans - Cypris Acute EC50 634 mg/l Fresh water 48 hours subglobosa Acute EC50 32 mg/l Fresh water Daphnia - Daphnia magna 48 hours **Titanium Dioxide** Acute LC50 >1000000 µg/l Marine Fish - Fundulus heteroclitus 96 hours water Acetone Acute EC50 7200000 µg/l Fresh water Algae - Selenastrum sp. 96 hours Acute LC50 4.42589 ml/L Marine water Crustaceans - Acartia tonsa -48 hours Copepodid Acute LC50 7460000 µg/l Fresh water Daphnia - Daphnia cucullata 48 hours Acute LC50 5600 ppm Fresh water Fish - Poecilia reticulata 96 hours 96 hours Chronic NOEC 4.95 mg/l Marine water Algae - Ulva pertusa Chronic NOEC 0.016 ml/L Fresh water Crustaceans - Daphniidae 21 days Chronic NOEC 0.1 ml/L Fresh water Daphnia - Daphnia magna -21 days Neonate Fish - Gasterosteus aculeatus -Chronic NOEC 5 µg/l Marine water 42 days Larvae Zinc Phosphate Acute LC50 90 µg/l Fresh water Fish - Oncorhynchus mykiss 96 hours n-Butyl Acetate Acute LC50 32 mg/l Marine water Crustaceans - Artemia salina 48 hours Acute LC50 18000 µg/l Fresh water Fish - Pimephales promelas 96 hours Xylene, mixed isomers Acute LC50 8500 µg/l Marine water **Crustaceans - Palaemonetes** 48 hours pugio

Section 12. Ecological information

	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
-	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone		-	Readily
n-Butyl Acetate		-	Readily
Xylene, mixed isomers		-	Readily
Ethylbenzene		-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Epoxy Polymer Zinc Phosphate Xylene, mixed isomers zinc oxide	-	60960 8.1 to 25.9	low high low high

Mobility in soil

: Not available.

coefficient (Koc) Other adverse effects

Soil/water partition

: 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 retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and
	sewers.

Section 14. Transport information

Epoxy Primer Grey						Page: 13/1
Section 14. Transport information						
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Marine Pollutant
New Zealand Class	UN1263	PAINT. Marine pollutant (Acetone, Epoxy Polymer)	3	111	Provide Victoria	Yes.
ADG Class	UN1263	PAINT	3			Yes. The environmentally hazardous substance mark is not required.
UN Class	UN1263	PAINT	3	111		Yes. The environmentally hazardous substance mark is not required.
ADR/RID Class	UN1263	PAINT	3	III		Yes.
IATA Class	UN1263	PAINT	3			Yes. The environmentally hazardous substance mark is not required.
IMDG Class	UN1263	PAINT. Marine pollutant (Epoxy Polymer, Zinc Phosphate)	3	111		Marine pollutant
Additional	<u> </u>	1			` ``	
<u>information</u> New Zealand C		The marine pollutant	mark is not re	quired when	transported by roa	ad or rail.
ADG Class	-	Hazchem code •3Y Hazchem code •3Y				
UN Class						
ADR/RID Class	5	The environmentally sizes of ≤5 L or ≤5 kg Funnel code D/E		ostance mark	is not required wh	nen transported in
IATA Class	: -	The environmentally ransportation regula		ostance mark	may appear if rec	quired by other

IMDG Class: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.Emergency schedulesF-E, S-E

PG* : Packing group

Version : 3.04

Section 14. Transport information

NZ NZS 14 Hazchem Code : •3Y

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 : Not available. to IMO instruments

Section 15. Regulatory information

HSNO Approval Number	:	HSR002669
HSNO Group Standard	:	Surface coatings and colourants
HSNO Classification	:	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Safety, health and environmental regulations	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

environmental regulations specific for the product

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

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Version	: 3.04

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Section 16. Othe	er information
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 = International Air Transport Association IBC = International Maritime Dangerous Goods 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 SGG = Segregation Group UN = United Nations

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.

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