# **Resene Paints (Australia) Limited**

Version No: 2.8

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

Chemwatch Hazard Alert Code: 3

Issue Date: 06/03/2023 Print Date: 07/03/2023 S.GHS.AUS.EN

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

Product Identifier	
Product name	Phenoline Tank Shield Part A
Synonyms	Not Available
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Other means of identification	Not Available

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

Relevant identified uses Part A of a 2 pack industrial tank lining

# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints (Australia) Limited	Altex Coatings Ltd
Address	7 Production Avenue, Molendinar Queensland 4214 Australia	91-111 Oropi Road Tauranga 3112 New Zealand
Telephone	+61 7 55126600	+64 7 541 1221
Fax	+61 7 55126697	+64 7 541 1310
Website	www.resene.com.au	www.altexcoatings.com
Email	Not Available	neil.debenham@carboline.co.nz

### Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126	0800 764766	+61 1800 951 288
Other emergency telephone numbers	Not Available	Not Available	+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. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.		
Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 1C, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Flammable Liquids Category 4, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4, Reproductive Toxicity Category 1B, Sensitisation (Skin) Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 1	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)
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Hazard statement(s)

Signal word Danger

The statement (5)	
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.
H227	Combustible liquid.
H302	Harmful if swallowed.
H360	May damage fertility or the unborn child.
H317	May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

Supplementary statement(s)		
Not Applicable	Not Applicable	

# Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

# Precautionary statement(s) Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
IF exposed or concerned: Get medical advice/ attention.		
Immediately call a POISON CENTER/doctor/physician/first aider.		
In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
IF ON SKIN: Wash with plenty of water and soap.		
Wash contaminated clothing before reuse.		
If skin irritation or rash occurs: Get medical advice/attention.		
Take off contaminated clothing and wash it before reuse.		
Collect spillage.		
IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
IF INHALED: Remove person to fresh air and keep comfortable for breathing.		

## Precautionary statement(s) Storage

P403	Store in a well-ventilated place.
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
55492-52-9	40-50	bisphenol F diglycidyl ether copolymer
30499-70-8	1-10	trimethylolpropane triglycidyl ether
100-41-4	<=1	ethylbenzene
25068-38-6	40-50	bisphenol A/ diglycidyl ether resin, liquid
Legend:	<ol> <li>Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&amp;L * EU IOELVs available</li> </ol>	

# **SECTION 4 First aid measures**

# Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>

Continued...

## Phenoline Tank Shield Part A

Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

## Extinguishing media

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

# 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

# Advice for firefighters

Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>aldehydes</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>
HAZCHEM	•3Z

# **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	<ul> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> </ul>

► Increase ventilation.
Stop leak if safe to do so.
Contain spill with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
Absorb remaining product with sand, earth or vermiculite.
Collect solid residues and seal in labelled drums for disposal.
Wash area and prevent runoff into drains.
If contamination of drains or waterways occurs, advise emergency services.

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

	Suitable contain	er Pa	tal can or drum ckaging as recor eck all container			om leaks.	
Stor	age incompatibil	i <b>ty</b> evo ► Thi	vo part products plution of heat (e s excess heat m	are mixed or al xotherm) may o ay generate tox	lowed to mix in p ccur. ic vapour	parts of product (kit) proportions other th ds and oxidising ag	, an manufacturer's recommendation, polymerisation with gelation and
$\wedge$	$\wedge$				$\wedge$	$\wedge$	



х

 Must not be stored together
 May be stored together with specific preventions 0

- May be stored together +

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# **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	ethylbenzene Ethyl benzene 100		100 ppm / 434 mg/m3	0 ppm / 434 mg/m3 543 mg/m3 / 125 ppm		Not Available
Emergency Limits						
Ingredient	TEEL-1		TEEL-2	т	TEEL-3	
ethylbenzene	Not Available		Not Available	N	Not Available	
bisphenol A/ diglycidyl ether resin, liquid	90 mg/m3		990 mg/m3	5	5,900 mg/m3	
Ingredient	Original IDLH			Revised IDLH		

Ingredient	Original IDLH	Revised IDLH
bisphenol F diglycidyl ether copolymer	Not Available	Not Available
trimethylolpropane triglycidyl ether	Not Available	Not Available
ethylbenzene	800 ppm	Not Available
bisphenol A/ diglycidyl ether resin, liquid	Not Available	Not Available
Occupational Exposure Banding		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
bisphenol F diglycidyl ether copolymer	E	≤ 0.1 ppm
trimethylolpropane triglycidyl ether	E	≤ 0.1 ppm

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

#### Exposure controls

Notes:

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.					
	Type of Contaminant:			Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank	0.25-0.5 m/s (50-100 f/min)				
	aerosols, fumes from pouring operations, intermittent con drift, plating acid fumes, pickling (released at low velocity	0.5-1 m/s (100-200 f/min.)				
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)				
	grinding, abrasive blasting, tumbling, high speed wheel go very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)				
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Large hood or large air mass in motion 4: Small hood - local control only				

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

Individual protection measures, such as personal protective equipment

Eye and face protection



- Chemical goggles.
- Full face shield may be required for supplementary but never for primary protection of eyes.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>When handling corresive liquids, wear trouvers or overalls outside of boots, to avoid splils entering boots.</li> <li>Nortz:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective opupment. To avoid all possible skin contact.</li> <li>Containmaled leafter ritems: such as shoes, babs and watch-bands should be removed and destroyed.</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective opupment. To avoid all possible skin contact.</li> <li>Containmaled leafter ritems: such as shoes, babs and watch-bands should be removed and destroyed.</li> <li>The each break through lime for substances has to be obtained from the manufacturer of the glove material can not be calculated in avoance maning a find include.</li> <li>Personal brygine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and direction of a non-predimteer motivative is recommended.</li> <li>Suitability and duration of onon-predimteem disculater is recommended.</li> <li>Suitability and duration of poly top is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>theraping and duration of anon-predimteem disculater is recommended.</li> <li>dotatity</li> <li>glove hickness and</li> <li>dotatity</li> <li>dotatity</li> <li>dotatity of the prediment standard (or g. Europe EN 374, US F739, ASN23 2161.1 or national equivalent) is recommended.</li> <li>Stanting TA ASNZ3 2451.10.1 or national equivalent) is recommended.</li> <li>Stanting TA ASNZ3 2161.10.1 or national equivalent) is recommended.</li> <li>Stanting TA ASNZ3 2161.10.1 or national equivalent) is recommended.</li> <li>Stantin TA F739.9 (in any applicitatio</li></ul></li></ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

#### 'Forsberg Clothing Performance Index'.

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

Phenoline Tank Shield Part A

Material	СРІ
TEFLON	A
VITON	A
BUTYL	С

## **Respiratory protection**

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AX-AUS / Class 1 P2	-	AX-PAPR-AUS / Class 1 P2
up to 50 x ES	Air-line*	-	-

BUTYL/NEOPRENE	C
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

 $\ensuremath{\text{NOTE}}$  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 100 x ES	-	AX-3 P2	-
100+ x ES	-	Air-line**	-

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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not 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

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

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

\*\* - Continuous-flow or positive pressure demand.

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, 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 deg C)

## **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance			
Physical state	Liquid	Relative density (Water = 1)	1.17
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	5982.91
Initial boiling point and boiling range (°C)	65	Molecular weight (g/mol)	Not Available
Flash point (°C)	74	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	36	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	10.53

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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	In animal testing, exposure to aerosols of reactive diluents (especially o-cresol glycidyl ether, CAS RN:2210-79-9) has been reported to affect the adrenal gland, central nervous system, kidney, liver, ovaries, spleen, testes, thymus and respiratory tract. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following 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. At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver). At sufficiently high doses the material may be nephrotoxic (i.e. poisonous to the kidney). Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions 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. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.
Chronic	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

	ΤΟΧΙΟΙΤΥ			IRRITATION	
Phenoline Tank Shield Part A	Not Available			Not Available	
bisphenol F diglycidyl ether	TOXICITY	a . [2]	IRRITATIO		
copolymer	dermal (rat) LD50: >400 mg/kg <sup>[2]</sup> Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>			verse effect observed (not irritating) <sup>[1]</sup> rse effect observed (irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION			
trimethylolpropane triglycidyl	Not Available	bt Available Eye: adverse effect observed (irritating) <sup>[1]</sup>			
ether	Skin: adverse effect observed (corrosive) <sup>[1]</sup>			rrosive) <sup>[1]</sup>	
	Xi irritant [Manfr.]				
	ΤΟΧΙΟΙΤΥ		IRRITA	TION	
	Dermal (rabbit) LD50: 17800 mg/kg <sup>[2]</sup>		Eye (ra	abbit): 500 mg - SEVERE	
ethylbenzene	Inhalation(Rat) LC50: 17.2 mg/l4h <sup>[2]</sup>		Eye: no	o adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: 3500 mg/kg	g <sup>[2]</sup>	Skin (ra	abbit): 15 mg/24h mild	
			Skin: n	o adverse effect observed (not irritating) <sup>[1]</sup>	

	τοχιςιτγ	IRRI	TATION
bisphenol A/ diglycidyl ether resin, liquid	dermal (rat) LD50: >1200 mg/kg <sup>[2]</sup>	Eye (	rabbit): 100mg - Mild
resili, liquiu	Oral (Mouse) LD50; >500 mg/kg <sup>[2]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Sul specified data extracted from RTECS - Register of To		otained from manufacturer's SDS. Unless otherwise
Phenoline Tank Shield Part A	appear to bind estrogens or other tested steroid horm metabolism and mitochondrial biogenesis ,while effect placenta, macrophages, and demonstrated additional ERRs bind enhancers throughout the genome where Although their overall functions remain uncertain, the estrogen receptors ERalpha and ERbeta and may fur • ERR-alpha has wide tissue distribution but it is most kidney, heart, brown adipose tissue, cerebellum, intes which its expression is possibly related to adrenal dev (DHEAS) production in adrenarche, and also in steroi androstenedione, although relatively weak androgens hair growth, adult-type body odor, increased oiliness • ERR-beta is a nuclear receptor . Its function is unkn • ERR-gamma is a nuclear receptor that behaves as endocrine disruptor by binding strongly to ERRgamm	ceptors) g agent: eceptors) are so named because o iones. The ERR family have been d iting mammalian physiology in the h roles in diabetes and cancer. they exert effects on gene regulatio y also share DNA-binding sites, co- nction to modulate estrogen signalin highly expressed in tissues that pri stine, and skeletal muscle. ERRalph velopment, with a possible role in fe d production of post-adrenarche/ad s, are responsible for the androgenic of hair and skin, and mild acne. own; however, a similar protein in m a constitutive activator of transcriptii a BPA as well as its nitrated and ch t to the estrogen receptor (ER). BP/ nt parts of the body may account fo	is sequence homology with estrogen receptors but do not emonstrated to control energy homeostasis, oxidative eart, brown adipose tissue, white adipose tissue, in regulators, and target genes with the conventional g pathways. efferentially use fatty acids as energy sources such as a has been detected in normal adrenal cortex tissues, in tal adrenal function, in dehydroepiandrosterone ult life. DHEA and other adrenal androgens such as c effects of adrenarche, such as early pubic and axillary house plays an essential role in placental development on. There is evidence that bisphenol A functions as an iorinated metabolites seems to binds strongly to A binding to ERR-gamma preserves its basal constitutive r variations in bisphenol A effects. For instance,
Acute Toxicity	×	Carcinogenicity	× ×
Skin Irritation/Corrosion	×	Reproductivity	· •
Serious Eye Damage/Irritation	×	STOT - Single Exposure	2 X
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	• •
Mutagenicity	X	Aspiration Hazard	I X

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

# **SECTION 12 Ecological information**

	Endpoint		Test Duration (hr)		Species	Value		Source		
Phenoline Tank Shield Part A	Not Available		Not Available		Not Available	Not Ava	ilable	Not Ava	iilable	
	Endpoint		Test Duration (hr)		Species	Value		Source		
bisphenol F diglycidyl ether copolymer	Not Available		Not Available		Not Available	Not Ava	ilable	Not Ava		
imethylolpropane triglycidyl	Endpoint		Test Duration (hr)		Species	Value		Source		
ether	Not Available		Not Available		Not Available	Not Available		Not Ava	Not Available	
	Endpoint	Test	Duration (hr)	Species	5		Value		Source	
	LC50	96h		Fish	Fish			75mg/L	4	
	EC50	72h	72h		Algae or other aquatic plants		2.4-9.8mg	/I	4	
ethylbenzene	EC50	48h		Crustac	Crustacea		1.37-4.4m	g/l	4	
	EC50(ECx)	24h		Algae o	Algae or other aquatic plants		0.02-938n	ng/l	4	
	EC50	96h		Algae o	r other aquatic plants		1.7-7.6mg/l 4		4	
	Endpoint		Test Duration (hr)		Species	Valu	ıe	Source		
bisphenol A/ diglycidyl ether	EC50(ECx)		24h		Crustacea 3mg		g/l Not Available		le	
resin, liquid	LC50		96h		Fish		2.4mg/l		Not Available	
	EC50									

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. **DO NOT** discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
bisphenol A/ diglycidyl ether resin, liquid	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethylbenzene	LOW (BCF = 79.43)
bisphenol A/ diglycidyl ether resin, liquid	LOW (LogKOW = 2.6835)
Mobility in soil	

Ingredient	Mobility		
ethylbenzene	LOW (KOC = 517.8)		
bisphenol A/ diglycidyl ether resin, liquid	LOW (KOC = 51.43)		

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li>Do NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

## **SECTION 14 Transport information**

UN proper shipping name

Labels Required	abels Required		
Marine Pollutant			
HAZCHEM	•3Z		
Land transport (ADG)			
UN number or ID number	3082		

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)		9 Not Applicable	
Packing group	Ш		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions	274 331 335 375 AU01 5 L	

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

(a) packagings;
(b) IBCs; or
(c) any other receptacle not exceeding 500 kg(L).
Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

#### Air transport (ICAO-IATA / DGR)

	7			
UN number	3082			
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.			
	ICAO/IATA Class	9		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
,	ERG Code	9L		
Packing group	Ш			
Environmental hazard	Environmentally hazardous			
	Special provisions		A97 A158 A197 A215	
	Cargo Only Packing Ir	nstructions	964	
Special precautions for user	Cargo Only Maximum Qty / Pack		450 L	
	Passenger and Cargo Packing Instructions		964	
	Passenger and Cargo Maximum Qty / Pack		450 L	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y964	
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G	

# Sea transport (IMDG-Code / GGVSee)

	•			
UN number	3082			
UN proper shipping name	ENVIRONMENTALLY H	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk No	ot Applicable		
Packing group	III			
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-F 274 335 969 5 L		

# Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
bisphenol F diglycidyl ether copolymer	Not Available
trimethylolpropane triglycidyl ether	Not Available
ethylbenzene	Not Available
bisphenol A/ diglycidyl ether resin, liquid	Not Available

## Transport in bulk in accordance with the IGC Code

Product name	Ship Type
bisphenol F diglycidyl ether copolymer	Not Available
trimethylolpropane triglycidyl ether	Not Available
ethylbenzene	Not Available

# Page 12 of 13

# Phenoline Tank Shield Part A

Product name	Ship Type	
bisphenol A/ diglycidyl ether resin, liquid	Not Available	
ECTION 15 Regulatory	information	
Safety, health and environ	mental regulations / legislation specific for the s	ubstance or mixture
bisphenol F diglycidyl ether	copolymer is found on the following regulatory lists	
Australian Inventory of Industr	al Chemicals (AIIC)	
trimethylolpropane triglycid	yl ether is found on the following regulatory lists	
Australia Standard for the Unif Schedule 5	orm Scheduling of Medicines and Poisons (SUSMP) -	Chemical Footprint Project - Chemicals of High Concern List
Australian Inventory of Industr	ial Chemicals (AIIC)	
ethylbenzene is found on th	e following regulatory lists	
Australia Hazardous Chemical	Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
Australia Standard for the Unif Schedule 5	orm Scheduling of Medicines and Poisons (SUSMP) -	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
Australian Inventory of Industrial Chemicals (AIIC)		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
bisphenol A/ diglycidyl ethe	r resin, liquid is found on the following regulatory lists	i
Australia Hazardous Chemical	Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5		International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
Australian Inventory of Industr	ial Chemicals (AIIC)	
lational Inventory Status		

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (bisphenol F diglycidyl ether copolymer; trimethylolpropane triglycidyl ether; ethylbenzene; bisphenol A/ diglycidyl ether resin, liquid)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (bisphenol F diglycidyl ether copolymer)		
Korea - KECI	/es		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (trimethylolpropane triglycidyl ether)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (trimethylolpropane triglycidyl ether)		
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	06/03/2023
Initial Date	18/06/2019

## **SDS Version Summary**

Version	Date of Jpdate	Sections Updated
1.8 0	06/03/2023	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), First Aid measures - First Aid (eye), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal protection - Personal protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (eye), Composition (information of the substance / mixture and of the company / undertaking - Supplier Information, Transport Information - Transport Information, Identification of the substance / mixture and of the company / undertaking - Use

## Other information

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

end of SDS

## Phenoline Tank Shield Part A

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** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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# **Resene Paints (Australia) Limited**

Version No: 4.6

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

Chemwatch Hazard Alert Code: 4

Issue Date: 07/03/2023 Print Date: 07/03/2023 S.GHS.AUS.EN

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

Product	Identifier
---------	------------

Product name	Phenoline Tank Shield Part B
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

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

Relevant identified uses

Part B of a two pack industrial tank lining

# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints (Australia) Limited	Altex Coatings Ltd
Address	7 Production Avenue, Molendinar Queensland 4214 Australia	91-111 Oropi Road Tauranga 3112 New Zealand
Telephone	+61 7 55126600	+64 7 541 1221
Fax	+61 7 55126697	+64 7 541 1310
Website	www.resene.com.au	www.altexcoatings.com
Email	Not Available	neil.debenham@carboline.co.nz

#### Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126	0800 764766	+61 1800 951 288
Other emergency telephone numbers	Not Available	Not Available	+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. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 1B, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Corrosive to Metals Category 1, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Sensitisation (Skin) Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

## Label elements

Hazard pictogram(s)	
Signal word	Danger

#### Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H336	May cause drowsiness or dizziness.
H290	May be corrosive to metals.
H350	May cause cancer.
H317	May cause an allergic skin reaction.

H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

# Supplementary statement(s)

Not Applicable

Not Applicable

## Precautionary statement(s) Prevention

, , ,	
P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P234	Keep only in original packaging.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

## Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P363	Wash contaminated clothing before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## Precautionary statement(s) Storage

• • • • •	•	
P405	Store locked up.	
P403+P233	+P233 Store in a well-ventilated place. Keep container tightly closed.	

## Precautionary statement(s) Disposal

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

# **SECTION 3 Composition / information on ingredients**

P501

## Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
100-51-6	20-30	benzyl alcohol
2855-13-2	10-20	isophorone diamine
14808-60-7	10-20 silica crystalline - quartz	
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

## **SECTION 4 First aid measures**

Description of first aid measure Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>

Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> <li>Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> <li>This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

# **SECTION 5 Firefighting measures**

## Extinguishing media

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

# 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
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# Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>aldehydes</li> <li>nitrogen oxides (NOX)</li> <li>silicon dioxide (SiO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> <li>WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.</li> </ul>
HAZCHEM	2X

## **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	<ul> <li>Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.</li> <li>Check regularly for spills and leaks.</li> <li>Slippery when spilt.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
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Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>DO NOT store near acids, or oxidising agents</li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):</li> <li>Removable head packaging;</li> <li>Cans with friction closures and</li> <li>low pressure tubes and cartridges may be used.</li> </ul>
Storage incompatibility	<ul> <li>Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>Avoid contact with copper, aluminium and their alloys.</li> <li>Avoid reaction with oxidising agents</li> </ul>



- Must not be stored together Х

 May be stored together with specific preventions
 May be stored together 0

+

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# SECTION 8 Exposure controls / personal protection

#### **Control parameters**

Occupational Exposure Limits (OEL)

L	INGREDIENT DATA

Source	Ingredient	Material name		TWA		STEL	Peak	Notes	
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)		0.05 m	g/m3	Not Available	Not Available	Not Available	
Emergency Limits									
Ingredient	TEEL-1		TEEL-2		TEEL-3				
benzyl alcohol	30 ppm	30 ppm 52 ppm		740 ppm					
silica crystalline - quartz	0.075 mg/m3	0.075 mg/m3 33 mg/m3		200 mg/m3					
Ingredient	Original IDLH				Revise	d IDLH			
benzyl alcohol	Not Available				Not Available				
isophorone diamine	Not Available				Not Available				
silica crystalline - quartz	25 mg/m3 / 50 mg/m3				Not Available				
Occupational Exposure Banding	3								
Ingredient	Occupational Exposure E	Occupational Exposure Band Rating		Occupat	onal Exp	oosure Band Lii	nit		
benzyl alcohol	E		≤ 0.1 ppn	≤ 0.1 ppm					
isophorone diamine	D			> 0.1 to ≤ 1 ppm					
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.								

# Exposure controls

Appropriate engineering controls	<ul> <li>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</li> <li>Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.</li> <li>Work should be undertaken in an isolated system such as a 'glove-box'. Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.</li> <li>Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.</li> <li>Open-vessel systems are prohibited.</li> <li>Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.</li> <li>Exhaust air should be introduced in sufficient volume to maintain correct operation of the local exhaust system.</li> <li>For maintenace 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</li></ul>					
Individual protection measures, such as personal protective equipment						
Eye and face protection	<ul> <li>Chemical goggles.</li> <li>Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>					
Skin protection	See Hand protection below					
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when</li> </ul>					

	<ul> <li>making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and durability of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>As defined in ASTM F-739-96 in any application, gloves are rated as: <ul> <li>Excellent when breakthrough time &gt; 20 min</li> <li>For owhen breakthrough time &gt; 20 min</li> </ul> </li> <li>Poor when glove material degrades</li> <li>For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.</li> <li>It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task nonvertee sist and to a glove endure the task. Note: Depending on the activity being conducted, gloves divarying thickne</li></ul>
Body protection	See Other protection below
Body protection	
Other protection	<ul> <li>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 equivalent]</li> <li>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]</li> <li>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.</li> <li>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.</li> <li>Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Prior to protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety shower.</li> </ul>

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

'Forsberg Clothing Performance Index'.

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

Phenoline Tank Shield Part B

Material	CPI
BUTYL	A
VITON	A

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

# **Respiratory protection**

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

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

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

If inhalation risk above the TLV exists, wear approved dust respirator.

Use respirators with protection factors appropriate for the exposure level.
 Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator

- Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
   Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
- Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode
- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## **SECTION 9** Physical and chemical properties

Information on basic physical and chemical properties

Appearance	coloured viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.60
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	31250.00
Initial boiling point and boiling range (°C)	80	Molecular weight (g/mol)	Not Available
Flash point (°C)	204	Taste	Not Available
Evaporation rate	> 1 Ether = 1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.9	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	510

# SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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**

Inhaled

Information on toxicological effects

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

	The material has <b>NOT</b> been classified by EC Directive corroborating animal or human evidence. Inhalation of aerosols (mists, fumes), generated by the Acute effects from inhalation of high vapour concent nausea.	he material during the course of norma	l handling, m	ay be harmful.	
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.				
Skin Contact	The material can produce chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material may be harmful; systemic effects may result following absorption. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.				
Eye	The material can produce chemical burns to the eye If applied to the eyes, this material causes severe ey		sts may be e	xtremely irritating.	
Chronic	Studies show that inhaling this substance for over a Long-term exposure to respiratory irritants may resu Skin contact with the material is more likely to cause There is sufficient evidence to suggest that this mate Toxic: danger of serious damage to health by prolong This material can cause serious damage if one is ex produce severe defects. Ample evidence exists from experimentation that rec	It in airways disease, involving difficulty a sensitisation reaction in some perso erial directly causes cancer in humans. ged exposure through inhalation, in con posed to it for long periods. It can be a	v breathing an ns compared ntact with skir ssumed that i	nd related whole-body problems. to the general population. n and if swallowed. it contains a substance which can	
	Substance accumulation, in the human body, may or	ccur and may cause some concern foll	owing repeate	ed or long-term occupational exposure.	
Phenoline Tank Shield Part B	Substance accumulation, in the human body, may or	ccur and may cause some concern foll IRRITATION	owing repeate	ed or long-term occupational exposure.	
Phenoline Tank Shield Part B			owing repeate	ed or long-term occupational exposure.	
Phenoline Tank Shield Part B	TOXICITY Not Available	IRRITATION Not Available	owing repeate	ed or long-term occupational exposure.	
Phenoline Tank Shield Part B	TOXICITY Not Available TOXICITY	IRRITATION IRRITATION IRRITATION		ed or long-term occupational exposure.	
Phenoline Tank Shield Part B	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 0.75 mg op	en SEVERE		
Phenoline Tank Shield Part B	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >4.178 mg/L4h <sup>[2]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 0.75 mg op Eye: adverse effect obse	en SEVERE erved (irritatin		
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benzyl alcohol isophorone diamine silica crystalline - quartz <i>Legend:</i>	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >4.178 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1230 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: >=1.07<=5.01 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 1030 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Suspecified data extracted from RTECS - Register of T	IRRITATION Not Available IRRITATION Eye (rabbit): 0.75 mg op Eye: adverse effect obse Skin (man): 16 mg/48h-r Skin (rabbit):10 mg/24h Skin: no adverse effect of Skin: no adverse effect of Ubstances - Acute toxicity 2. Value obta Toxic Effect of chemical Substances Carcinogenicity	en SEVERE erved (irritatin nild open-mild observed (not ined from ma	g)[1] irritating)[1] IRRITATION Not Available TATION Available	
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benzyl alcohol isophorone diamine silica crystalline - quartz <i>Legend:</i> <u>Acute Toxicity</u> Skin Irritation/Corrosion Serious Eye Damage/Irritation	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >4.178 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1230 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: >=1.07<=5.01 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 1030 mg/kg <sup>[2]</sup> TOXICITY         Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >=1.07<=5.01 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 1030 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >=1.07<=5.01 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Suspecified data extracted from RTECS - Register of T         X	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 0.75 mg op         Eye: adverse effect obset         Skin (man): 16 mg/48h-r         Skin (rabbit):10 mg/24h         Skin: no adverse effect of         Skin: no adverse effect of         Skin: no adverse effect of         Skin: cabbit):10 mg/24h         Skin: no adverse effect of         Skin: no adverse effect of         Carcinogenicity         Reproductivity         STOT - Single Exposure	en SEVERE erved (irritatin nild open-mild observed (not ined from ma ined from ma ined from ma ined from ma	g)[1] irritating)[1] IRRITATION Not Available TATION Available	
benzyl alcohol isophorone diamine silica crystalline - quartz <i>Legend:</i> Acute Toxicity Skin Irritation/Corrosion	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >4.178 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup> TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: >=1.07<=5.01 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 1030 mg/kg <sup>[2]</sup> TOXICITY         Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered SL specified data extracted from RTECS - Register of T         ×	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 0.75 mg op         Eye: adverse effect obset         Skin (rabbit): 0.75 mg op         Skin (rabbit): 10 mg/24h         Skin (rabbit): 10 mg/24h         Skin: no adverse effect of         Skin: no adverse effect of         Ibstances - Acute toxicity 2. Value obta         Toxic Effect of chemical Substances         Carcinogenicity         Reproductivity	en SEVERE erved (irritatin mild open-mild bbserved (not ined from ma	g)[1] irritating)[1] IRRITATION Not Available TATION Available	

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IOX	

an aline Tank Chield Bert B	bline Tank Shield Part B		Test Duration (hr) Not Available		Species	Value		Source	
Tenoline Tank Shield Part B					Not Available Not Available		le Not Available		able
	Endpoint	Те	st Duration (hr)	Spe	cies		Value		Source
	LC50		h	Fish			10mg/l		4
have delegated	EC50	72	h	Alga	e or other aquatic plar	nts	500mg/l		2
benzyl alcohol	EC50	48	h	Crus	stacea		230mg/l		2
	NOEC(ECx)	33	6h	Fish			5.1mg/l		2
	EC50	96	h	Alga	e or other aquatic plar	nts	76.828mg	g/I	2
isophorone diamine	BCF NOEC(ECx) EC50 LC50 EC50	100 72h 72h 96h 48h	ו ו ו		or other aquatic plants or other aquatic plants acea		<0.3 1.5mg/l 37mg/l 70mg/l 14.6-21.5mg	ı/I	7 1 1 1 4
silica crystalline - quartz	Endpoint		Test Duration (hr)		Species	Value		Source	
Sinca orystalline - quartz	Not Available		Not Available		Not Available	Not Availab	le	Not Avail	able
Legend:			oxicity Data 2. Europe Toxicity Data 5. ECETC						

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzyl alcohol	LOW	LOW
isophorone diamine	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
benzyl alcohol	LOW (LogKOW = 1.1)
isophorone diamine	LOW (BCF = 3.4)

## Mobility in soil

Ingredient	Mobility
benzyl alcohol	LOW (KOC = 15.66)
isophorone diamine	LOW (KOC = 340.4)

# **SECTION 13 Disposal considerations**

Vaste treatment methods	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> </ul>
Product / Packaging disposal	<ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> </ul>
	<ul> <li>A Hierarchy of Controls seems to be common - the user should investigate:</li> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be</li> </ul>

applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Recycle wherever possible.
Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
Treat and neutralise at an approved treatment plant.
Treatment should involve: Neutralisation with suitable dilute acid followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

# **SECTION 14 Transport information**

# Labels Required

	8
Marine Pollutant	NO
HAZCHEM	2X

# Land transport (ADG)

UN number or ID number	3066		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)		8 Not Applicable	
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions	163 223 367 5 L	

# Air transport (ICAO-IATA / DGR)

UN number				
UN number	3066			
UN proper shipping name	Paint related material corrosive (including paint thinning or reducing compounds); Paint corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
Transport hazard class(es)	ICAO/IATA Class	8 Not Applicable		
	ERG Code     8L			
Packing group	II			
Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192 A803	
	Cargo Only Packing In	structions	856	
	Cargo Only Maximum Qty / Pack		60 L	
Special precautions for user	Passenger and Cargo Packing Instructions		852	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y841	
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

# Sea transport (IMDG-Code / GGVSee)

UN number	3066		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	IMDG Class     8       IMDG Subrisk     Not Applicable		
Packing group	Ш		
Environmental hazard	Not Applicable		

	EMS Number	F-A, S-B
Special precautions for user	Special provisions	163 223 367
	Limited Quantities	5 L

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

Not Applicable

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

Product name	Group
benzyl alcohol	Not Available
isophorone diamine	Not Available
silica crystalline - quartz	Not Available

## Transport in bulk in accordance with the IGC Code

Product name	Ship Type
benzyl alcohol	Not Available
isophorone diamine	Not Available
silica crystalline - quartz	Not Available

# SECTION 15 Regulatory information

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

#### benzyl alcohol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

### isophorone diamine 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 5

#### silica crystalline - quartz 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)

Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (benzyl alcohol; silica crystalline - quartz)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# **SECTION 16 Other information**

Revision Date	07/03/2023
Initial Date	04/04/2018

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.6	07/03/2023	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information -

Version	Date of Update	Sections Updated
		Acute Health (skin), Toxicological information - Acute Health (swallowed), Hazards identification - Classification, Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (hands/feet), Transport Information

#### 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIOC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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end of SDS