Devcon Plastic Steel Putty (A) Hardener ITW POLYMERS & FLUIDS

Chemwatch: 6872268

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

Issue Date: 20/08/2021 Print Date: 04/04/2022 Initial Date: 28/02/2008 S.GHS.AUS.EN

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

Product Identifier

Product name	Devcon Plastic Steel Putty (A) Hardener
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains triethylenetetramine and nonylphenol)
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Hardener component of two part epoxy system. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
Relevant identified uses	The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Details of the supplier of the safety data sheet

Registered company name	ITW POLYMERS & FLUIDS
Address	100 Hassall Street, Wetherill Park Not Available 2164 NSW Australia
Telephone	+61 2 9757 8800
Fax	Not Available
Website	www.itwpf.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132

CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+61 1800 951 288	+61 2 9186 1132	Not Available

Once connected and if the message is not in your prefered 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	S5
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Classification [1]

Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 1A, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2

Legend:

1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements











Signal word

Danger

Hazard statement(s)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
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.

Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P305+P351+P338	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.	

Precautionary statement(s) Storage

P405	Store locked up

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
112-24-3	30-60	<u>triethylenetetramine</u>
140-31-8	10-30	N-aminoethylpiperazine
25154-52-3	1-10	nonylphenol
13463-67-7	1-5	titanium dioxide

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SECTION 4 First aid measures

Description of first aid measures

General	
Eye Contact	If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Seek medical attention without delay; if pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). 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. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials:

- ▶ Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- ▶ Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

INGESTION:

▶ Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- ▶ Neutralising agents should never be given since exothermic heat reaction may compound injury.
- * Catharsis and emesis are absolutely contra-indicated.
- * Activated charcoal does not absorb alkali.
- * Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- ▶ Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

Extinguishing media

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- Foam
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- Use fire fighting procedures suitable for surrounding area.

Combustible

- Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).

Fire/Explosion Hazard

Combustion products include: carbon dioxide (CO2)

nitrogen oxides (NOx)

sulfur oxides (SOx)

other pyrolysis products typical of burning organic material.

May emit corrosive fumes.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minor Spills

- ► Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Wear impervious gloves and safety goggles.
- Trowel up/scrape up.

Major Spills

- ▶ Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- ▶ Prevent, by any means available, spillage from entering drains or water course.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- ► DO NOT USE brass or copper containers / stirrers
- DO NOT allow clothing wet with material to stay in contact with skin
- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Avoid contact with incompatible materials.

Other information

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources. ▶ Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container

- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polvliner drum
- ▶ Packing as recommended by manufacturer.

- Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

Storage incompatibility

- Avoid contact with copper, aluminium and their alloys.
- Avoid reaction with oxidising agents
- Avoid cross contamination between the two liquid parts of product (kit).

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- If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur.
- ▶ This excess heat may generate toxic vapour

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure	titanium	Titanium	10	Not	Not	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Standards	dioxide	dioxide	mg/m3	Available	Available	

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
triethylenetetramine	Not Available	3 ppm	14 ppm	83 ppm
N-aminoethylpiperazine	Not Available	6.4 mg/m3	71 mg/m3	420 mg/m3
nonylphenol	Not Available	3.9 mg/m3	43 mg/m3	260 mg/m3
titanium dioxide	Not Available	30 mg/m3	330 mg/m3	2,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
triethylenetetramine	Not Available	Not Available
N-aminoethylpiperazine	Not Available	Not Available
nonylphenol	Not Available	Not Available
titanium dioxide	5,000 mg/m3	Not Available

Exposure controls

Appropriate engineering controls

General exhaust is adequate under normal operating conditions.

Refer also to protective measures for the other component used with the product. Read both SDS before using; store and attach SDS together.

Personal protection









Eye and face protection

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- ▶ Alternatively a gas mask may replace splash goggles and face shields.

Skin protection

See Hand protection below

► Elbow length PVC gloves

▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

Hands/feet protection

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Body protection

See Other protection below

Other protection

- Overalls.
- PVC Apro
 - PVC protective suit may be required if exposure severe.
 - Eyewash unit.

Thermal hazards

Not Available

Respiratory protection

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	wearance White-cream coloured paste with an amine odour; mixes with water.		
Physical state	Free-flowing Paste	Relative density (Water = 1)	0.98 @20C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	10.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>232	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Information on toxicologi	cal effects
Inhaled	Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Inhalation of epoxy resin amine hardeners (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting several days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing "amine asthma". Inhalation of amine vapours may cause irritation of the mucous membrane of the nose and throat, and lung irritation with respiratory distress and cough. Swelling and inflammation of the respiratory tract is seen in serious cases; with headache, nausea, faintness and anxiety. Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary oedema.
Ingestion	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. Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain;
	Continued

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	vomiting and diarrhoea may follow. Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea. The vomitus may contain blood and mucous. Amines without benzene rings when swallowed are absorbed throughout the gut. Corrosive action may cause damage throughout the gastrointestinal tract.		
Skin Contact	Skin contact with the material may be harmful; syst The material can produce chemical burns following Amine epoxy-curing agents (hardeners) may produ individuals. Cutaneous reactions include erythema. Skin contact with alkaline corrosives may produce be soft, gelatinous and necrotic; tissue destruction Open cuts, abraded or irritated skin should not be entry into the blood-stream, through, for example, or	direct contact with the skin. lice primary skin irritation and sensitisation dermatitis in predisposed intolerable itching and severe facial swelling. severe pain and burns; brownish stains may develop. The corroded area may may be deep.	
Еуе	cornea and inflammation of the iris. Mild cases ofte persistent swelling, scarring, permanent cloudiness Vapours of volatile amines irritate the eyes, causing swelling of the cornea, resulting in "halos" around li	pain and burns. There may be swelling, epithelium destruction, clouding of the in resolve; severe cases can be prolonged with complications such as is, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness. It is excessive secretion of tears, inflammation of the conjunctiva and slight eights. This effect is temporary, lasting only for a few hours. However this skilled tasks, such as driving a car. Direct eye contact with liquid volatile the lighter species.	
Chronic	mouth and necrosis (rarely) of the jaw. Bronchial in	y result in the erosion of teeth, inflammatory and ulcerative changes in the ritation, with cough, and frequent attacks of bronchial pneumonia may ensue. see a sensitisation reaction in some persons compared to the general	
	TOXICITY	IRRITATION	
Devcon Plastic Steel Putty (A) Hardener	Oral (Rat) LD50: 2000 mg/kg	INMINION	
	TOXICITY	IRRITATION	
Devcon Plastic Steel Putty (A) Hardener	Oral (Rat) LD50: 2000 mg/kg	IRRITATION	
		'	
Devcon Plastic Steel Putty (A) Hardener	Oral (Rat) LD50: 2000 mg/kg	IRRITATION	
	TOXICITY	IRRITATION	
Devcon Plastic Steel Putty (A) Hardener	Oral (Rat) LD50: 2000 mg/kg	IRRITATION	
	TOXICITY	IRRITATION	
Devcon Plastic Steel Putty (A) Hardener	Oral (Rat) LD50: 2000 mg/kg	INITATION	
Legend:		Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. FECS - Register of Toxic Effect of chemical Substances	
Devcon Plastic Steel Putty (A) Hardener	low molecular weight ethylenediamine, propylene members have been shown to cause skin irritation shown to cause cancer. Triethylenetetramine is a severe irritant to skin are vapour via inhalation was tolerated without impair mucous membranes in the airways. Studies done developmental defects.	cinal primary and at least one secondary amine groups and are derivatives of ediamine or hexanediamine. Toxicity depends on route of exposure. Cluster on or sensitisation, eye irritation and genetic defects, but have not been and eyes and may induce skin sensitisation. Acute exposure to saturated rement but exposure to aerosol may lead to reversible irritations of the e on experimental animals showed that it does not cause cancer or foetal any cause physical defects in the developing embryo (teratogenesis).	
Devcon Plastic Steel Putty (A) Hardener	be estimated for respiratory sensitisation (asthma Although the LD50 levels indicate a relatively low appear in humans after exposure to lower doses. LOAEL of 110 mg/kg, there is no concern for acu In pigs, piperazine is readily absorbed from the g	level of oral acute toxicity (LD50 1-5 g/kg bw), signs of neurotoxicity may Based on exposure levels of up to 3.4 mg/kg/day piperazine base and a te toxicity astrointestinal tract, and the major part of the resorbed compound is t 48 hours. The principal route of excretion of piperazine and its metabolites	

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For nonylphenol and its compounds:

Estrogenic substances and other endocrine disruptors are compounds that have hormone-like effects in both wildlife and humans. Xenoestrogens usually function by binding to estrogen receptors and acting competitively against natural estrogens. These substances are intravenous anaesthetic agents. They have a very low level of acute toxicity; they may cause skin irritation. Repeated exposure may irritate the stomach. There is no evidence of this group of substances causing mutation or

Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. They are known as xenoestrogens.

adverse effects on reproduction.

Animal testing suggests that repeated exposure to nonylphenol may cause liver changes and kidney dysfunction.

Nonylphenol was not found to cause mutations or chromosomal aberrations.

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* IUCLID

For nonylphenol:

Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. No significant acute toxicological data identified in literature search.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

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The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

Ethyleneamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readily absorbed through the skin and may cause eye blindness and irreparable damage. As such, they require careful handling. In general, the low-molecular weight polyamines have been positive in the Ames assay (for genetic damage); however, this is probably due to their ability to chelate copper.

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The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

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Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

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The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Acute Toxicity	~	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	•	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	✓
Mutagenicity	✓	Aspiration Hazard	×

Legend:

- ✓ Data available to make classification
- 🗶 Data available but does not fill the criteria for classification
- O Data Not Available to make classification

SECTION 12 Ecological information

Toxicity

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Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Devcon Plastic Steel Putty (A) Hardener	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Devcon Plastic Steel Putty (A) Hardener	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Devcon Plastic Steel Putty (A) Hardener	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Devcon Plastic Steel Putty (A) Hardener	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Devcon Plastic Steel Putty (A) Hardener	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

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
triethylenetetramine	LOW	LOW
N-aminoethylpiperazine	HIGH	HIGH
nonylphenol	HIGH	HIGH
titanium dioxide	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
triethylenetetramine	LOW (BCF = 5)
N-aminoethylpiperazine	LOW (LogKOW = -1.5677)
nonylphenol	LOW (BCF = 271)
titanium dioxide	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
triethylenetetramine	LOW (KOC = 309.9)
N-aminoethylpiperazine	LOW (KOC = 171.7)
nonylphenol	LOW (KOC = 56010)
titanium dioxide	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

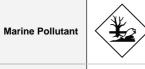
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Material may be disposed of by controlled burning in an approved incinerator or buried in an approved landfill.
- Prior to disposal in a landfill the material should be mixed with the other component and reacted to render the material inert.

SECTION 14 Transport information

Labels Required



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HAZCHEM

Land transport (Not Applicable)

UN number	2735				
Packing group	Ш				
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains triethylenetetramine and nonylphenol)				
Environmental hazard	No relevant data				
Transport hazard class(es)	Class 8 Subrisk Not Applicable				
Special precautions for user	Special provisions 274 Limited quantity 1 L				

Air transport (ICAO-IATA / DGR)

UN number	2735				
Packing group	Ш				
UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. * (contains triethylenetetramine and nonylphenol); Amines, liquid, corrosive, n.o.s. * (contains triethylenetetramine and nonylphenol)				
Environmental hazard	No relevant data				
Transport hazard class(es)	ICAO/IATA Class	8			
	ICAO / IATA Subrisk	Not Applicable			
	ERG Code	8L			
Special precautions for user	Special provisions		A3 A803		
	Cargo Only Packing Instructions		855		
	Cargo Only Maximum Qty / Pack		30 L		
	Passenger and Cargo Packing Instructions		851		
	Passenger and Cargo Maximum Qty / Pack		1 L		
	Passenger and Cargo Limited Quantity Packing Instructions		Y840		
	Passenger and Cargo Limited Maximum Qty / Pack		0.5 L		
			-		

Sea transport (IMDG-Code / GGVSee)

UN number	2735		
Packing group	П		
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains triethylenetetramine and nonylphenol)		
Environmental hazard	Marine Pollutant		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable		
Special precautions for user	EMS Number F-A, S-B Special provisions 274 Limited Quantities 1 L		

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Source	Ingredient	Pollution Category
Not Available	Devcon Plastic Steel Putty (A) Hardener	Not Available

SECTION 15 Regulatory information

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

triethylenetetramine(112-24-3) 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 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

N-aminoethylpiperazine(140-31-8) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

nonylphenol(25154-52-3) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

titanium dioxide(13463-67-7) is found on the following regulatory lists

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 2B: Possibly carcinogenic to humans

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

National Inventory	Status	
Australia - AIIC		
Canada - DSL	Yes	
Canada - NDSL	No (triethylenetetramine; N-aminoethylpiperazine)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Legend:	Y = All ingredients are on the inventory	

SECTION 16 Other 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.

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