

# CRC (NZ) 8050, 8054 F55

# **CRC Industries (CRC Industries New Zealand)**

Chemwatch: 4574-27 Version No: 9.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 3

Initial Date: 28/09/2004 Revision Date: 10/03/2023 Print Date: 26/12/2025 S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	CRC (NZ) 8050, 8054 F55		
Chemical Name	Not Applicable		
Synonyms	lychloroprene rubber adhesive cement F-55		
Proper shipping name	ADHESIVES containing flammable liquid		
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	Adhesive used for bonding a variety of materials.  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.
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# Details of the manufacturer or importer of the safety data sheet

Registered company name	CRC Industries (CRC Industries New Zealand)			
Address	Highbrook Drive East Tamaki Auckland New Zealand			
Telephone	9 272 2700			
Fax	+64 9 274 9696			
Website	www.crc.co.nz			
Email	- No EMAL ID NEEDED for NZ - JACK			

# **Emergency telephone number**

Association / Organisation	CRC Industries (CRC Industries New Zealand)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	NZ Poisons Centre 0800 POISON (0800 764 766)	+64 800 700 112 (ID#: 4574-27)
Other emergency telephone number(s)	111 (NZ Emergency Services)	+61 3 9573 3188

# **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Classification <sup>[1]</sup>	Flammable Liquids Category 2, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	3.1B, 6.1D (oral), 6.3A, 6.4A, 6.8B, 6.9B	

#### Label elements

#### Hazard pictogram(s)







Signal word

Danger

# Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

# Precautionary statement(s) Prevention

P280	P280 Wear protective gloves, protective clothing, eye protection and face protection.	
P260	Do not breathe mist/vapours/spray.	
P233	Keep container tightly closed.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P314	Get medical advice/attention if you feel unwell.	

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.		
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.

No further product hazard information.

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

# Substances

See section below for composition of Mixtures

# **Mixtures**

CAS No	%[weight]	Name	
108-88-3	10-30	toluene	
67-64-1	10-30	acetone	
Not Available	10-30	hexane isomers	
Not Available	10-30	polychloroprene rubbers	
Not Available	1-10	phenolic resins	
Not Available	10-30	0-30 performance additives	
Not Available		NOTE: Manufacturer has supplied full ingredient information to allow CHEMWATCH assessment.	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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 measures**

	<ul> <li>Wash out immediately with fresh 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>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
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	<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>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>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. For acute or short term repeated exposures to acetone:

- Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- ▶ There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

#### Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- ▶ Treat pulmonary oedema with PEEP or CPAP ventilation.

## Dermal Management:

- PRemove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

#### Eve Management:

- Irrigate thoroughly with running water or saline for 15 minutes.
- Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

#### Oral Management

- ▶ No GASTRIC LAVAGE OR EMETIC
- Encourage oral fluids.

# Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs.
- If patient unconscious, monitor renal function.
- Symptomatic and supportive care.

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

DeterminantSampling TimeIndexCommentsAcetone in urineEnd of shift50 mg/LNS

NS: Non-specific determinant; also observed after exposure to other material

Following acute or short term repeated exposures to toluene:

- Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 degrees C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.
- Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours.
- Primary threat to life from ingestion and/or inhalation is respiratory failure.

- Patients should be quickly evaluated for signs of respiratory distress (eg cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 <50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial damage has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenaline) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use.

#### **BIOLOGICAL EXPOSURE INDEX - BEI**

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments

o-Cresol in urine 0.5 mg/L End of shift B Hippuric acid in urine 1.6 g/g creatinine End of shift B, NS

Toluene in blood 0.05 mg/L Prior to last shift of workweek

NS: Non-specific determinant; also observed after exposure to other material

B: Background levels occur in specimens collected from subjects NOT exposed

# **SECTION 5 Firefighting measures**

## **Extinguishing media**

- Water spray or fog.
- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.

Do not use a water jet to fight fire.

#### Special hazards arising from the substrate or mixture

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

#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>hydrogen chloride</li> <li>phosgene</li> <li>other pyrolysis products typical of burning organic material.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> <li>May emit clouds of acrid smoke</li> </ul>

# **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

	5 or
Minor Spills	<ul> <li>Remove all ignition sources.</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> </ul>
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>May be violently or explosively reactive.</li> </ul>

Wear breathing apparatus plus protective gloves.

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

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.

#### Contains low boiling substance:

Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.

- ▶ Check for bulging containers.
- Vent periodically
- ▶ Always release caps or seals slowly to ensure slow dissipation of vapours
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Safe handling · Electrostatic discharge may be generated during pumping this may result in fire.
  - · Ensure electrical continuity by bonding and grounding (earthing) all equipment.
  - · Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec).
  - · Avoid splash filling.
  - ▶ Avoid skin contact, including inhalation.
  - ▶ Wear protective clothing when risk of exposure occurs.
  - ▶ Use in a well-ventilated area.
  - Prevent concentration in hollows and sumps.
- Other information
- Store in original containers in approved flame-proof area.
- ▶ No smoking, naked lights, heat or ignition sources.
- ▶ DO NOT store in pits, depression, basement or areas where vapours may be trapped.
- ▶ Keep containers securely sealed.

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> <li>For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> </ul>
	▶ For manufactured product having a viscosity of at least 250 cSt.
Storage incompatibility	► Avoid reaction with oxidising agents

# **SECTION 8 Exposure controls / personal protection**

## **Control parameters**

# Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	toluene	Toluene (Toluol)	20 ppm / 75 mg/m3	377 mg/m3 / 100 ppm	Not Available	skin - Skin absorption oto - Ototoxin bio - Exposure can also be estimated by biological monitoring
New Zealand Workplace Exposure Standards (WES)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	bio - Exposure can also be estimated by biological monitoring

# **Exposure controls**

# Appropriate 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.

Eye and face protection

personal protective equipment

▶ Safety glasses with side shields.

Skin protection	Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]     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.  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>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 making a final choice.</li> <li>Personal hygiene is a key element of effective hand care.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.</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:

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Material	CPI
PE/EVAL/PE	A
TEFLON	В
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
VITON	С
VITON/CHLOROBUTYL	С
VITON/NEOPRENE	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

**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 AX 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	-	AX-PAPR-AUS / Class 1
up to 50 x ES	-	AX-AUS / Class 1	-
up to 100 x ES	-	AX-2	AX-PAPR-2 ^

#### ^ - 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)

- 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

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® 38-612
BioClean™ Ultimate BUPS
AlphaTec® 53-001
AlphaTec® 58-005
BioClean™ Emerald BENS
BioClean™ Extra BLAS
BioClean™ Fusion (Sterile) S-BFAP
BioClean™ N-Plus BNPS
MICROFLEX® MidKnight® XTRA 93-862

The suggested gloves for use should be confirmed with the glove supplier.

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Honey coloured highly flammable liquid with a solvent odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.825-0.835
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	54	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-15	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	24.1 @ 20 C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

# **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**

# Information on toxicological effects

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CRC (NZ) 8050, 8054 F55	тохісіту	IRRITATION
Chronic	which can produce severe defects.  Based on experience with animal studies, exposilevels which do not cause significant toxic effects Prolonged or repeated skin contact may cause d There has been some concern that this material assessment.  Substance accumulation, in the human body, may occupational exposure.  Intentional abuse (glue sniffing) or occupational exposure inco-ordination, tremors of the extremeties (due to the service of the extremeties).	exposed to it for long periods. It can be assumed that it contains a substance are to the material may result in toxic effects to the development of the foetus, at to the mother.  Tying with cracking, irritation and possible dermatitis following.  Can cause cancer or mutations but there is not enough data to make an account of the possible dermatitis following.  Typing with cracking, irritation and possible dermatitis following.
Eye	There is evidence that material may produce eye instillation. Severe inflammation may be expecte	irritation in some persons and produce eye damage 24 hours or more after d with pain.
Skin Contact	exposure can cause contact dermatitis which is on Repeated exposure may cause skin cracking, fla	king or drying following normal handling and use. ealth of the individual; systemic effects may result following absorption.
Ingestion	fatal or may produce serious damage to the heal	ful; animal experiments indicate that ingestion of less than 150 gram may be the individual. cial/industrial environments. The liquid may produce gastrointestinal discomfort
Inhaled	reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), damaging to the health of the individual. There is some evidence to suggest that the mate such irritation can cause further lung damage. The acute toxicity of inhaled alkylbenzene is bes act as general anaesthetics. Whole body sympto of well-being, confusion, dizziness, drowsiness, r cold or numbness, twitching, tremors, convulsion result from cardiovascular collapse. Inhalation hazard is increased at higher temperal Inhalation of high concentrations of gas/vapour contended the proposure of the solution of the solution included the solution in the solution in the solution in the solution of the solution in the solution of exposure to acetone by inhalation includes.	auses lung irritation with coughing and nausea, central nervous depression with
j) Aspiration Hazard	Based on available data, the classification criteria	a are not met.
i) STOT - Repeated Exposure	There is sufficient evidence to classify this mater	al as toxic to specific organs through repeated exposure
h) STOT - Single Exposure	Based on available data, the classification criteria	a are not met.
g) Reproductivity	There is sufficient evidence to classify this mater	al as toxic to reproductivity
f) Carcinogenicity	Based on available data, the classification criteria	
sensitisation e) Mutagenicity	Based on available data, the classification criteria  Based on available data, the classification criteria	
Damage/Irritation d) Respiratory or Skin	·	
c) Serious Eye	There is sufficient evidence to classify this mater	
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this mater	<u> </u>
a) Acute Toxicity	There is sufficient evidence to classify this mater	al as soutaly toxic

	Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup>	Eye (Human):	300ppm	
	Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye (Rodent -	rabbit): 0.1mL	
	Oral (Rat) LD50: 636 mg/kg <sup>[2]</sup>	Eye (Rodent -	rabbit): 0.1mL - Severe	
		Eye (Rodent -	rabbit): 100mg/30S - Mild	
		Eye (Rodent -	rabbit): 2mg/24H - Severe	
		Eye (Rodent -	rabbit): 870ug - Mild	
toluene		Eye: adverse	effect observed (irritating) <sup>[1]</sup>	
		Skin (Mamma	- pig): 250uL/24H - Mild	
			rabbit): 20mg/24H - Moderate	
		Skin (Rodent -	rabbit): 435mg - Mild	
		Skin (Rodent -	rabbit): 500mg - Moderate	
		Skin: adverse	effect observed (irritating) <sup>[1]</sup>	
		Skin: no advei	se effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (Human):	186300ppm - Mild	
	Inhalation (Mouse) LC50: 44 mg/L4h <sup>[2]</sup>	Eye (Human):	500ppm	
	Oral (Rat) LD50: 5800 mg/kg <sup>[2]</sup>	Eye (Rodent -	rabbit): 10uL - Mild	
		Eye (Rodent -	rabbit): 20mg - Severe	
acetone		Eye (Rodent -	rabbit): 20mg/24H - Moderate	
		Eve: adverse	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		,	Skin (Rodent - rabbit): 395mg - Mild	
		,	Skin (Rodent - rabbit): 595mg - Mild Skin (Rodent - rabbit): 500mg/24H - Mild	
	, , ,			
		Skin: no adver	se effect observed (not irritating) <sup>[1]</sup>	
		Skin: no advei	se effect observed (not irritating) <sup>[1]</sup>	
Legend:	Value obtained from Europe ECHA Registered     Unless otherwise specified data extracted from	d Substances - Acute toxicity 2. N	/alue obtained from manufacturer's SDS.	
Legend:	·	d Substances - Acute toxicity 2. N	/alue obtained from manufacturer's SDS.	
Legend: CRC (NZ) 8050, 8054 F55	·	d Substances - Acute toxicity 2. N RTECS - Register of Toxic Effec	/alue obtained from manufacturer's SDS. t of chemical Substances	
-	Unless otherwise specified data extracted from  The material may produce severe irritation to the	d Substances - Acute toxicity 2. NRTECS - Register of Toxic Effect e eye causing pronounced inflam	Value obtained from manufacturer's SDS. of chemical Substances mation. Repeated or prolonged exposure to	
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CRC (NZ) 8050, 8054 F55 CRC (NZ) 8050, 8054 F55 & TOLUENE & ACETONE CRC (NZ) 8050, 8054 F55 &	Unless otherwise specified data extracted from  The material may produce severe irritation to the irritants may produce conjunctivitis.  The material may cause skin irritation after prolo the production of vesicles, scaling and thickening For toluene:  Acute toxicity: Humans exposed to high levels of effects ranging from headaches to intoxication, or toluene can cause severe central nervous system Death of heart muscle fibres, liver swelling, cong Exposure to inhalation at a concentration of 600	d Substances - Acute toxicity 2. Nature RTECS - Register of Toxic Effect et eye causing pronounced inflaminged or repeated exposure and g of the skin.  If toluene for short periods of time convulsions, narcosis (sleepiness maderession, and in large doses gestion and bleeding of the lungs parts per million for 8 hours resulted pupils, convulsions and naused to a skin irritant or sensitizer, but se anaemia. Studies in humans here	value obtained from manufacturer's SDS. to chemical Substances  mation. Repeated or prolonged exposure to may produce on contact skin redness, swelling experience adverse central nervous system ) and death. When inhaled or swallowed, thas a narcotic effect. 60mL has caused death and kidney injury were all found on autopsy. Ited in the same and more serious symptoms a.  it removes fat from the skin, and it also irritate ave shown that exposure to acetone at a level	
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CRC (NZ) 8050, 8054 F55 & TOLUENE & ACETONE  CRC (NZ) 8050, 8054 F55 & TOLUENE & ACETONE  CRC (NZ) 8050, 8054 F55 & TOLUENE  CRC (NZ) 8050, 8054 F55 & ACETONE  Acute Toxicity	Unless otherwise specified data extracted from  The material may produce severe irritation to the irritants may produce conjunctivitis.  The material may cause skin irritation after prolo the production of vesicles, scaling and thickening For toluene: Acute toxicity: Humans exposed to high levels of effects ranging from headaches to intoxication, of toluene can cause severe central nervous system Death of heart muscle fibres, liver swelling, cong Exposure to inhalation at a concentration of 600 including euphoria (a feeling of well-being), dilate For acetone: The acute toxicity of acetone is low. Acetone is not the eye. Animal testing shows acetone may cause of 2375 mg/m3 does not negatively impact an incomplete the several results.	d Substances - Acute toxicity 2. Nature RTECS - Register of Toxic Effect et eye causing pronounced inflaming anged or repeated exposure and g of the skin.  If toluene for short periods of time convulsions, narcosis (sleepiness m depression, and in large doses gestion and bleeding of the lungs parts per million for 8 hours resulted pupils, convulsions and naused pupils, convulsions and naused pupils, convulsions and naused pupils and skin irritant or sensitizer, but see anaemia. Studies in humans Individual's emotional regulation, but Carcinogenicity	value obtained from manufacturer's SDS. to chemical Substances  mation. Repeated or prolonged exposure to may produce on contact skin redness, swelling experience adverse central nervous system and death. When inhaled or swallowed, has a narcotic effect. 60mL has caused death and kidney injury were all found on autopsy. Ited in the same and more serious symptoms a.  Lit removes fat from the skin, and it also irritate ave shown that exposure to acetone at a level ehaviour, or learning ability.	
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IRRITATION

TOXICITY

**Legend:** X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

#### **Toxicity**

	Endpoint	Test Duration (hr)	Species	Value	Source
CRC (NZ) 8050, 8054 F55	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	12.5mg/L	4
(abassa	EC50	48h	Crustacea	3.78mg/L	5
toluene	NOEC(ECx)	168h	Crustacea	0.74mg/l	2
	EC50	96h	Algae or other aquatic plants	>376.71mg/L	4
	LC50	96h	Fish	5-35mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	5600- 10000mg/L	4
	EC50	48h	Crustacea	6098.4mg/L	5
acetone	EC50	96h	Algae or other aquatic plants	9.873- 27.684mg/l	4
	NOEC(ECx)	12h	Fish	0.001mg/L	4
	LC50	96h	Fish	3744.6- 5000.7mg/L	4
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. US EPA, Ecotox database - Aquatic Toxicity Data 4. ECETOC Aquatic Hazard Assessment Data 5. NITE (Japan) - Bioconcentration Data 7. Vendor Data				

#### For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs. Atmospheric Fate: PAHs are 'semi-volatile substances" which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions.

For Toluene: log Kow: 2.1-3; log Koc: 1.12-2.85; Koc: 37-260; log Kom: 1.39-2.89; Half-life (hr) air: 2.4-104;

Half-life (hr) H2O surface water : 5.55-528; Half-life (hr) H2O ground : 168-2628;

Half-life (hr) soil : <48-240; Henry's Pa m3 /mol : 518-694; Henry's atm m3 /mol : 5.94;

E-03BOD 5 0.86-2.12, 5%COD - 0.7-2.52,21-27%;

ThOD - 3.13; BCF - 1.67-380;

log BCF - 0.22-3.28.

Atmospheric Fate: The majority of toluene evaporates to the atmosphere from the water and soil. The main degradation pathway for toluene in the atmosphere is reaction with photochemically produced hydroxyl radicals. The estimated atmospheric half life for toluene is about 13 hours.

For Acetone: log Kow: -0.24;

Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55%

COD: 1.12-2.07 ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)	
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)	

#### Bioaccumulative potential

Ingredient	Bioaccumulation	
toluene	LOW (BCF = 90)	
acetone	LOW (BCF = 0.69)	

#### Mobility in soil

Ingredient	Mobility	
toluene	LOW (Log KOC = 268)	
acetone	HIGH (Log KOC = 1.981)	

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- 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.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse

#### Product / Packaging disposal

- Recycling Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ 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.
- Dispose of 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.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

# **SECTION 14 Transport information**

#### **Labels Required**

	3
Marine Pollutant	NO
HAZCHEM	•3YE

#### Land transport (UN)

14.1. UN number or ID number	1133
14.2. UN proper shipping name	ADHESIVES containing flammable liquid

14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable
14.4. Packing group	II	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions	Special provisions	Not Applicable
for user	Limited quantity	5 L

# Air transport (ICAO-IATA / DGR)

14.1. UN number	1133			
14.2. UN proper shipping name	Adhesives containing flammable liquid			
	ICAO/IATA Class 3			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable			
olado(do)	ERG Code	3L		
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3	
	Cargo Only Packing Instructions	364		
	Cargo Only Maximum Qty / Pack		60 L	
4.6. Special precautions for user	Passenger and Cargo Packing In	structions	353	
10. 400.	Passenger and Cargo Maximum	5 L		
		V044		
	Passenger and Cargo Limited Qu	lantity Packing Instructions	Y341	

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1133	1133		
14.2. UN proper shipping name	ADHESIVES containir	ADHESIVES containing flammable liquid		
14.3. Transport hazard	IMDG Class	3		
class(es)	IMDG Subsidiary Ha	azard Not Applicable		
14.4. Packing group	II			
14.5 Environmental hazard	Not Applicable			
	EMS Number	F-E, S-D		
14.6. Special precautions for user	Special provisions	Not Applicable		
	Limited Quantities	5 L		
		•		

# 14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

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

Product name	Group
toluene	Not Applicable
acetone	Not Applicable

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
toluene	Not Applicable
acetone	Not Applicable

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002611	Metal Industry Products Flammable Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

#### toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### **Additional Regulatory Information**

Not Applicable

#### **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)	
3.1B	100 L in containers more than 5 L	50 L	
3.1B	250 L in containers up to and including 5 L	50 L	

#### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

# Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)		Solid (kg)	Maximum quantity per package for each classification
3.1B				1 L

# **Tracking Requirements**

Not Applicable

## **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (toluene; acetone)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	

National Inventory	Status
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA  All chemical substances in this product have been designated as TSCA Inventory 'Active'	
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
UAE - Control List (Banned/Restricted Substances)	No (toluene; acetone)
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	10/03/2023
Initial Date	28/09/2004

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
8.1	23/12/2022	Classification review due to GHS Revision change.
9.1	10/03/2023	Classification change due to full database hazard calculation/update.

#### 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
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- ▶ 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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