

This safety data sheet was created pursuant to the requirements of: GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

**NOVAKEY PRESSURE Revision Number** 1.03

Revision date 06-Mar-2022 Supersedes Date: 07-Jul-2021

## Section 1: Identification

**Product identifier** 

**Product Name NOVAKEY PRESSURE** 

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Adhesive

No information available Uses advised against

Details of the supplier of the safety data sheet

Manufacturer

Bostik New Zealand Limited 19 Eastern Hutt Road Wingate, Lower Hutt, New Zealand

Tel: 04-567 5119 Fax: 04-567 5412

E-mail address SDS.AP@Bostik.com

Emergency telephone number

**Emergency Telephone** 24 Hr: 0800 243 622

International +64 4 917 9888 Poison Centre: 0800 764 766

Bostik New Zealand Limited

Lower Hutt, New Zealand

Tel: 04-567 5119

Fax: 04-567 5412

19 Eastern Hutt Road Wingate,

## Section 2: Hazard identification

## **GHS Classification**

Flammable liquids	Category 2 (HSNO - 3.1B)
Acute toxicity - Oral	Category 4 (HSNO - 6.1D)
Acute toxicity - Inhalation (Vapors)	Category 4 (HSNO - 6.1D)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 (HSNO - 6.1D)
Skin corrosion/irritation	Category 2 (HSNO - 6.3A)
Serious eye damage/eye irritation	Category 1 (HSNO - 8.3A)
Skin sensitization	Category 1 (HSNO - 6.5B)
Carcinogenicity	Category 2 (HSNO - 6.7B)
Specific target organ toxicity (single exposure)	Category 3 (HSNO - 6.1E)

## Label elements



Signal word Danger

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#### **Hazard statements**

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Ground and bond container and receiving equipment

Use non-sparking tools

Take action to prevent static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Keep cool

Use explosion-proof electrical/ ventilating/ lighting/ equipment

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor

### Skin

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

Wash contaminated clothing before reuse

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

#### Indestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

#### Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards which do not result in classification

May be harmful in contact with skin. In use, may form flammable/explosive vapor-air mixture.

## Section 3: Composition/information on ingredients

	Chemical name	CAS No	Weight-%
	Cyclohexanone	108-94-1	40 - <80
	Tetrahydrofuran	109-99-9	40 - <80
Γ	Polyvinyl chloride	9002-86-2	10 - <20
	Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	25068-38-6	0.1- <1

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## Section 4: First-aid measures

### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required. IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed

or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or

allergic reactions see a physician.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in

breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

## Section 5: Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

**Hazardous combustion products** 

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.

Special protective actions for fire-fighters

**Special protective equipment and** Firefighters should wear self-contained breathing apparatus and full firefighting turnout precautions for fire-fighters gear.

Carbon monoxide. Carbon dioxide (CO2). Hydrochloric Acid.

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### Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled

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material. Avoid breathing vapors or mists.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

spillage if safe to do so. Prevent product from entering drains.

#### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: Handling and storage

#### Precautions for safe handling

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Take off contaminated clothing and wash before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should

not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face

protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and

static electricity). Keep in properly labeled containers. Do not store near combustible

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materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of

the reach of children. Store locked up. Protect from moisture.

Recommended storage

temperature

Keep at temperatures between 41 and 77 °F / 5 and 25 °C.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

## Section 8: Exposure controls/personal protection

### **Control parameters**

### **Exposure Limits**

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Cyclohexanone	TWA: 25 ppm	STEL: 50 ppm	TWA: 10 ppm	25 ppm TWA
108-94-1	TWA: 100 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 41 mg/m <sup>3</sup>	100 mg/m³ TWA
	Skin	S*	STEL: 20 ppm	
			STEL: 82 mg/m <sup>3</sup>	
			Sk*	
Tetrahydrofuran	TWA: 100 ppm	STEL: 100 ppm	TWA: 50 ppm	100 ppm TWA
109-99-9	TWA: 295 mg/m <sup>3</sup>	TWA: 50 ppm	TWA: 150 mg/m <sup>3</sup>	295 mg/m³ TWA
	Skin	S*	STEL: 100 ppm	
			STEL: 300 mg/m <sup>3</sup>	
			Sk*	
Polyvinyl chloride	-	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
9002-86-2		respirable particulate	TWA: 4 mg/m <sup>3</sup>	
		matter	STEL: 30 mg/m <sup>3</sup>	
			STEL: 12 mg/m <sup>3</sup>	

#### Biological occupational exposure limits

Chemical name	New Zealand	ACGIH
Cyclohexanone 108-94-1	-	80 mg/L - urine (1,2-Cyclohexanediol with hydrolysis) - end of shift at end of workweek 8 mg/L - urine (Cyclohexanol with hydrolysis) - end of shift
Tetrahydrofuran 109-99-9	2 mg/g creatinine - urine (THF) - end of exposure or shift, within 1 hour of end of exposure	2 mg/L - urine (Tetrahydrofuran) - end of shift

## Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Wear suitable gloves. Impervious gloves. Hand protection

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

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Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Solid Paste Liquid **Appearance** 

Blue Color Odor Solvent.

**Odor threshold** No information available

**Property** Values Remarks • Method

No data available Not applicable Insoluble in water рΗ

Melting point / freezing point No data available None known

66 °C Initial boiling point and boiling

range

Flash point -15 °C

**Evaporation rate** No data available None known Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive 10.9

limits

Lower flammability or explosive 1.7

limits

No data available None known Vapor pressure Relative vapor density No data available None known Relative density No data available None known

Water solubility No data available partially soluble

Solubility(ies) No data available None known Partition coefficient No data available None known

**Autoignition temperature** 321 °C

**Decomposition temperature** 

None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

No information available. **Explosive properties Oxidizing properties** No information available.

Other information

No information available **Softening Point** Molecular weight No information available

**VOC Content (%)** 84.42595 0.97 Density

No information available **Bulk density** 

Particle characteristics

Section 10: Stability and reactivity

Reactivity

No information available. Reactivity

**Chemical stability** 

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

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Possibility of hazardous reactions None under normal processing.

Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Excessive heat. Protect from moisture.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products** 

**Hazardous decomposition** 

products

None known based on information supplied.

## Section 11: Toxicological information

#### **Acute toxicity**

## Information on likely routes of exposure

### **Product Information**

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. May cause sensitization

by skin contact. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness

and tearing of the eyes. Coughing and/ or wheezing.

### **Acute toxicity**

### **Numerical measures of toxicity**

No information available

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,880.30 mg/kg
ATEmix (dermal) 2,477.00 mg/kg
ATEmix (inhalation-vapor) 14.90 mg/l
ATEmix (inhalation-dust/mist) 3.38 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cyclohexanone	=1535 mg/kg (Rattus)	= 947 mg/kg (Oryctolagus	=8000 ppm (Rattus) 4 h
		cuniculus)	
Tetrahydrofuran	=1650 mg/kg (Rattus)	>2000 mg/kg (rattus)	=21000 ppm (Rattus) 3 h
Bisphenol-A-Epichlorhydrin	LD50 (Rattus) > 2000 mg/kg	>2000 mg/Kg (Rattus)	-
Epoxy resin <= 700 MW	OECD 420		

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

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**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients. Causes

skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious

eye damage.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
Cyclohexanone - 108-94-1	-	Group 3
Tetrahydrofuran - 109-99-9	Suspected carcinogen	Group 2B
Polyvinyl chloride - 9002-86-2	-	Group 3

### Legend

### IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Tetrahydrofuran (109-99-9)

Method	Species	Results
OECD 451	Rat	Carcinogenic

**Reproductive toxicity**Based on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness. Classification

based on data available for ingredients.

Respiratory irritation Irritant.

Narcotic effects No information available.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## Section 12: Ecological information

## **Ecotoxicity**

## **Ecotoxicity**

### **Aquatic ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Cyclohexanone	EC50: =20mg/L (96h, Chlorella vulgaris)	LC50 96 h 481 - 578 mg/L (Pimephales promelas flow-through)	EC50: =800mg/L (24h, Daphnia magna)
Tetrahydrofuran	-	LC50: 1970 - 2360mg/L (96h, Pimephales promelas) LC50: 2700	EC50: =5930mg/L (24h, Daphnia magna)

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		- 3600mg/L (96h, Pimephales	
		promelas)	
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009	1.2 mg/l 96Hr (Oncorhynchus mykiss)	2.7 mg/l 48hr Daphia Magna

**Terrestrial ecotoxicty** There is no data for this product.

**Persistence and degradability** No information available.

Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Cyclohexanone	0.86
Tetrahydrofuran	0.45
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	3.26

## **Mobility in soil**

#### Other adverse effects

## Section 13: Disposal considerations

### Disposal methods

# Waste from residues/unused products

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Flammable substances - may not be disposed of into or onto a landfill or sewage facility.

They may only be burnt in certain situations.

Flammable gases, liquids and solids may only be discharged into the environment or landfill as waste if the substance will not at any time come into contact with any explosives, oxidising gases, liquids or solids or organic peroxides; and there will be no ignition source in the vicinity of the disposal site at any time and if the substance were to ignite, no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation. Substances which are hazardous to human health or corrosive to metals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is no tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances.

### Contaminated packaging

For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is

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manufactured from. Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance;
- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

## Section 14: Transport information

IATA

UN number or ID number UN1133 UN proper shipping name Adhesives

Transport hazard class(es) 3
Packing group II
Special Provisions A3

**Description** UN1133, Adhesives, 3, II

MDG

UN number or ID number UN1133 UN proper shipping name Adhesives

Transport hazard class(es) 3
Packing group || |
EmS-No | | F-E, 3

**EmS-No** F-E, S-D **Marine pollutant** NP

**Description** UN1133, Adhesives, 3, II, (-15°C c.c.)

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

ADR

UN number or ID number UN1133
Proper Shipping Name UN1133
Adhesives

Transport hazard class(es) 3 Labels 3 Packing group II

**Description** UN1133, Adhesives, 3, II, (D/E)

Limited quantity (LQ) 5 L Special Provisions 640C Classification code F1 Tunnel restriction code (D/E)

## Section 15: Regulatory information

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

## **New Zealand**

ERMA Group HSR002669

Chemical name	New Zealand HSNO Chemical Classification
Cyclohexanone - 108-94-1	- 3.1C,6.1C (All),6.1C (D),6.1D (O),6.4A,9.2B,9.3C (HSR001112)
Tetrahydrofuran - 109-99-9	- 3.1B,6.1D (All),6.1D (O),6.3A,6.4A,6.7B,6.9B (All),6.9B (I),9.3C (HSR001224)
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW - 25068-38-6	- 6.3B,6.4A,6.5B,6.9B (All),6.9B (D),9.1B (All),9.1B (F),9.1B (C),9.1B (A) (HSR003180)

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National regulations

There are no applicable tolerable exposure limits or environmental exposure limits

according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please should the Health and Sofety at Work Act 2015 for further information.

check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

EPA New Zealand HSNO approval code or group standard

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## Section 16: Other information

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**Revision Note** 

\*\*\*Indicates updated data since last publication.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

World Health Organization

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**