



Conforms to the Hazardous Substances (Safety Data Sheets) Notice 2017

## SAFETY DATA SHEET

# Rislone Octane Booster

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

*Trade name:* Rislone Octane Booster  
*Product no.:* 44747

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

*Relevant identified uses of the substance or mixture:* Fuel additive  
*Uses advised against:* None known.

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

*Company and address:* **Rislone**  
P.O. Box 187  
Holly, MI 48442  
USA  
(810) 603-1321  
www.Rislone.com

*E-mail:* support@rislone.com  
*SDS date:* 26 February 2024  
*SDS Version:* 1.0

#### Emergency telephone number

ChemTel Inc.  
(800) 255-3924 (North America)  
+1 (813) 248-0585 (International)

### SECTION 2: HAZARDS IDENTIFICATION

Classified according to the Hazardous Substances (Hazard Classification) Notice.

#### Classification of the substance or mixture

Flam. Liq. 4; H227, Combustible liquid  
Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.  
Skin Irrit. 2; H315, Causes skin irritation.  
Eye Irrit. 2; H319, Causes serious eye irritation.  
Acute Tox. 3; H331, Toxic if inhaled.  
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

#### Label elements

*Hazard pictogram(s):*





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<i>Signal word:</i>	Danger
<i>Hazard statement(s):</i>	Combustible liquid (H227) May be fatal if swallowed and enters airways. (H304) Causes skin irritation. (H315) Causes serious eye irritation. (H319) Toxic if inhaled. (H331) Toxic if inhaled. (H331) Harmful to aquatic life with long lasting effects. (H412)
<i>Precautionary statement(s):</i>	
<i>General:</i>	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
<i>Prevention:</i>	Avoid breathing mist/vapour. (P261) Use only outdoors or in a well-ventilated area. (P271)
<i>Response:</i>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340) Specific treatment (see instructions on this label). (P321)
<i>Storage:</i>	Store locked up. (P405)
<i>Disposal:</i>	Dispose of contents/container in accordance with local regulation (P501)
<i>Hazardous substances:</i>	Distillates (petroleum), hydrotreated light paraffinic;Baseoil - unspecified;[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] 2-butoxyethanol Tricarbonyl(methylcyclopentadienyl)manganese
<i>Additional labelling:</i>	Not applicable.
<b>Other hazards</b>	
<i>Additional warnings:</i>	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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## Substances

Not applicable. This product is a mixture.

## Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Distillates (petroleum), hydrotreated light paraffinic;Baseoil - unspecified;[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]	CAS No.: 64742-55-8 EC No.: 265-158-7	25-40%	Asp. Tox. 1, H304	[19]
2-butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0	10-15%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	
Tricarbonyl(methylcyclopentadienyl)manganese	CAS No.: 12108-13-3 EC No.: 235-166-5	1-3%	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 1, H330 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials



## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

*General information:*

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

*Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

*Skin contact:*

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

*Eye contact:*

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

*Ingestion:*

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

*Burns:*

Not applicable.

### Most important symptoms and effects, both acute and delayed

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.



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

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

### **Information to medics**

Bring this safety data sheet or the label from this product.

## **SECTION 5: FIREFIGHTING MEASURES**

### **Extinguishing media**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### **Special hazards arising from the substance or mixture**

Combustible liquid  
In use may form flammable/explosive vapour-air mixture.  
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.  
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:  
Carbon oxides (CO / CO<sub>2</sub>)

### **Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Centre: 0800 764 766 (24 hour service) in order to obtain further advice.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Avoid inhalation of vapours from spilled material.  
Contaminated areas may be slippery.

### **Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.  
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### **Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.



**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.  
Avoid direct contact with the product.  
Avoid contact during pregnancy and while nursing.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:*

Always store in containers of the same material as the original container.

*Storage temperature:*

Cool, dry conditions in well sealed receptacles  
Away from heat.  
Keep in properly labeled containers.  
Keep out of the reach of children.  
Store locked up.

*Incompatible materials:*

Strong acids  
Strong oxidizing agents  
Strong bases

**Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

2-butoxyethanol  
Long term exposure limit (8 hours) (ppm): 25  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 121  
Annotations:  
skin = Skin absorption

Tricarbonyl(methylcyclopentadienyl)manganese  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 0.2  
Annotations:  
skin = Skin absorption

Workplace exposure standards and biological exposure indices. Edition 13, April 2022.

*DNEL:*

2-butoxyethanol

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
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Long term – Systemic effects - General population	Inhalation	59 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	98 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	147 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	246 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	426 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	1091 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	6.3 mg/kg bw/day
Short term – Systemic effects - General population	Oral	26.7 mg/kg bw/day

Distillates (petroleum), hydrotreated light paraffinic;Baseoil - unspecified;[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	970 µg/kgbw/day
Long term – Local effects - General population	Inhalation	1.19 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	5.58 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	2.73 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	740 µg/kgbw/day

Tricarbonyl(methylcyclopentadienyl)manganese

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	62 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	110 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	110 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	600 µg/m <sup>3</sup>

*PNEC:*

2-butoxyethanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		8.8 mg/L
Freshwater sediment		34.6 mg/kg
Intermittent release (freshwater)		26.4 mg/L
Marine water		880 µg/L
Marine water sediment		3.46 mg/kg
Predators		20 mg/kg
Sewage treatment plant		463 mg/L
Soil		2.33 mg/kg

Distillates (petroleum), hydrotreated light paraffinic;Baseoil - unspecified;[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in



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the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]

Route of exposure:	Duration of Exposure:	PNEC:
Predators		9.33 mg/kg

Tricarbonyl(methylcyclopentadienyl)manganese

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		210 ng/L
Intermittent release (freshwater)		2.1 µg/L
Marine water		21 ng/L
Soil		16 µg/kg

## Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:*

Take off contaminated clothing and wash it before reuse.

*Measures to avoid environmental exposure:*

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

*Generally:*

Use only protective equipment that have been approved by IANZ or NATA, or a laboratory accredited under a recognised Mutual Recognition Arrangement.

*Respiratory Equipment:*

No specific requirements

*Skin protection:*

Recommended	Type/Category	Standards	
Protective work	Protective work clothing		






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Recommended	Type/Category	Standards	
clothing			
NA	NA	Long sleeved clothing	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Gloves	-	-	EN374	

*Eye protection:*

Type	Standards	
Tight sealing safety goggles	Tight sealing safety goggles	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<i>Form:</i>	Liquid
<i>Colour:</i>	Yellow
<i>Odour:</i>	Petroleum-like
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	Not determined
<i>Density (g/cm<sup>3</sup>):</i>	-
<i>Relative density:</i>	0.78
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

### Phase changes

<i>Melting point (°C):</i>	No data available
<i>Boiling point (°C):</i>	164
<i>Vapour pressure:</i>	No data available
<i>Relative vapour density:</i>	No data available
<i>Decomposition temperature (°C):</i>	No data available
<i>Evaporation rate (n-butylacetate = 100):</i>	No data available

### Data on fire and explosion hazards

<i>Flash point (°C):</i>	70
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.



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*Explosion limits (% v/v):*

Testing not relevant or not possible due to the nature of the product.

*Explosive properties:*

No data available

*Oxidizing properties:*

No data available

### **Solubility**

*Solubility in water:*

Not miscible or difficult to mix

*n-octanol/water coefficient (LogKow):*

Testing not relevant or not possible due to the nature of the product.

*Solubility in fat (g/L):*

Testing not relevant or not possible due to the nature of the product.

### **Other information**

*Evaporation rate (n-butylacetate = 100):*

No data available

*Other physical and chemical parameters:*

No data available.

*Oxidizing properties:*

No data available

## **SECTION 10: STABILITY AND REACTIVITY**

### **Reactivity**

No data available.

### **Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

### **Possibility of hazardous reactions**

None known.

### **Conditions to avoid**

Heat, flames, and sparks  
Excessive heat

### **Incompatible materials**

Strong acids  
Strong oxidizing agents  
Strong bases

### **Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Information on toxicological effects**

#### **Acute toxicity**

Toxic if inhaled.  
Toxic if inhaled.

#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Serious eye damage/irritation**



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Causes serious eye irritation.

**Respiratory sensitisation**

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

**Skin sensitisation**

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

**Germ cell mutagenicity**

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

**Carcinogenicity**

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

2-butoxyethanol has been classified by IARC as a group 3 carcinogen.

**Reproductive toxicity**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Toxicity**

Harmful to aquatic life with long lasting effects.

**Persistence and degradability**

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

**Bioaccumulative potential**

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

**Mobility in soil**

No data available.

**Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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### Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

This product is within scope of the regulations of transport of dangerous goods.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: REGULATORY INFORMATION

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

*Restrictions for application:*

People under the age of 15 shall not be exposed to this product.  
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

*Demands for specific education:*

No specific requirements.

*Control of major hazard facilities:*

H2 - ACUTE TOXIC, Qualifying quantity (lower-tier): 50 tonnes / (upper-tier): 200 tonnes

*Additional information:*

Tactile warning.  
If this product is sold in retail, it must be delivered with child-resistant fastening.

*New Zealand Inventory of Chemicals (NZIoC):*

Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by



treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] is listed

2-butoxyethanol is listed

Tricarbonyl(methylcyclopentadienyl)manganese is listed

Sources:

Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 (LI 2016/13)

Health and Safety at Work (Major Hazard Facilities) Regulations 2016 (LI 2016/14)

Hazardous Substances (Hazard Classification) Notice 2020

Hazardous Substances and New Organisms Act 1996

## Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H310, Fatal in contact with skin.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H330, Fatal if inhaled.

H332, Harmful if inhaled.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

AS/NZS = Australian New Zealand Standard

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

EINECS = European Inventory of Existing Commercial chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Hazchem = Hazardous chemicals

IANZ = International Accreditation New Zealand

IARC = International Agency for Research on Cancer



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IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NATA = National Association of Testing Authorities  
NZIoC = New Zealand Inventory of Chemicals  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL = A specific concentration limit  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Hazardous Substances (Hazard Classification) Notice.

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by the Hazardous Substances (Hazard Classification) Notice.

#### **The safety data sheet is validated by**

NL

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: NZ-en