

Safety data sheet

BASF Safety Data Sheet
Date / Revised: 30.12.2015
Product: **RIPCORD**[®]

(Ref. ID no. 30364479/SDS_CPA_00/EN. Version: 1.0. According to UN GHS 4th rev.)

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

1.1 Product identifier

RIPCORD[®]

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

Relevant identified uses: crop protection product, insecticide.

1.3 Details of the supplier of the safety data sheet

Company:

BASF New Zealand Limited
Level 4, 4 Leonard Isitt Drive, Auckland Airport, Auckland 2022
P.O. Box 407, Auckland 1140
Phone: +9 255 4300
Fax: +9 255 4307
E-mail address: reception@basf-nz.co.nz

1.4 Emergency telephone number

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 Hour Advice in an Emergency Only)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Hazard Classification (NZ EPA)

3.1C, 6.1D, 6.3B, 6.4A, 6.5B, 6.8B, 6.9A, 9.1A, 9.3C, 9.4A

2.2 Label Elements

Pictogram:



Priority Identifier:

DANGER. Keep out of reach of children

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Secondary Identifiers:

Hazard Statements

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Harmful to terrestrial vertebrates.
Very toxic to terrestrial invertebrates.

To avoid risks to human health and the environment, comply with the instructions for use.
Hazard determining component(s) for labelling: Cypermethrin, XYLENE

2.3. Other hazards

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical nature

Crop protection product, insecticide, emulsifiable concentrate (EC).

Hazardous ingredients

Alpha-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
Content (W/W): 21.1 %
CAS Number: 52315-07-8

xylene

Content (W/W): ≤ 70 %
CAS Number: 1330-20-7
EC-Number: 215-535-7
INDEX-Number: 601-022-00-984-1

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

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On skin contact:

After contact with skin, immediately wash thoroughly with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water. Seek medical attention. Do not induce vomiting due to aspiration hazard.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Symptoms: numbness and tingling of hands and feet, lung oedema, convulsions.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray, carbon dioxide, foam, dry powder.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides.

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation. Remove contaminated clothes, undergarments and shoes immediately.

6.2 Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be

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labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

APPROVED HANDLER:

Approved handlers as defined under the HSNO Act 1996 are not required for this product except during commercial use. This product must be under the control of an APPROVED HANDLER if it is being applied in a wide dispersive manner or used by a commercial contractor. Refer to the product label for handling precautions and directions for use.

TRACKING:

Not required.

RECORD KEEPING:

Written records of use must be kept if applying more than 200 ml of this product within a 24-hour period.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Segregate from foods and animal feeds.

Unsuitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

Storage Site Requirements:

Stores containing more than 100 litres of this product require emergency response plans and secondary containment systems, and are subject to signage. Note: When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.

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AGGREGATE STORAGE VOLUME THRESHOLDS: When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.						
Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
100 L (closed) 25 L (decanted) 5 L (open occasionally)	100 L (closed) 25 L (decanted) 5 L (open occasionally)	500 litres (2 required)	100 litres	0.1 litres	100 litres	0.1 litres
* Note: Farms \geq 4 ha are exempt but with controls						
DO NOT STORE OR LOAD WITH: Class 1, 2.1, 2.3, 7.			SEGREGATE FROM: Class 4.2, 4.3, 5.1, 5.2 Foodstuffs and Food Containers			
Segregation: In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles, a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.						

Note: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters (NZ)

Substance	CAS#	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Xylene (o-, m-, p- isomers)	1330-20-7 95-47-6 108-38-3 106-42-3	50	217		

8.2 Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	clear
Odour:	of the solvent contained in the product
Odour threshold:	Not determined since harmful by inhalation.
pH value:	approx. 5 (water, 1 %(m), 20 °C) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Crystallization temperature:	< 0 °C
Boiling point:	137 - 140 °C (1,013 hPa) Information applies to the solvent.
Flash point:	26 °C
Evaporation rate:	not determined
Flammability:	Flammable.
Lower explosion limit:	1.0 – 1.1 %(V) Information applies to the solvent.
Upper explosion limit:	6 - 7 %(V) Information applies to the solvent.

Information on: xylene

Ignition temperature: approx. 488 °C Literature data.

Vapour pressure:	approx. 11,7 hPa (25 °C) Information applies to the solvent.
Density:	approx. 0,94 g/cm ³ (20 °C)
Relative density:	0.94 (20 °C) (calculated)
Relative vapour density (air):	not applicable
Solubility in water:	emulsifiable
Partitioning coefficient n-octanol/water (log K _{ow}):	not applicable

Information on: cypermethrin cis/trans +/- 40/60; (RS)-α-cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
Partitioning coefficient n-octanol/water (log K_{ow}): 6,3 (20 °C)

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	approx. 71 mPa.s (25 °C) By analogy with a product of similar composition
Viscosity, kinematic:	approx. 75 mm ² /s (25 °C) By analogy with a product of similar composition

9.2 Other information

Information on: xylene

Adsorption/water - soil: KOC: 537; log KOC: 2,73 The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. (OECD Guideline 121)

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

10.5 Incompatible materials

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 1,049 mg/kg

LD50 rat (dermal): > 2.000 mg/kg.

Information on: xylene

Assessment of acute toxicity:

Of low toxicity after single ingestion. Of low toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. The European Union (EU) has classified this substance as 'harmful' after inhalation. The European Union (EU) has classified this substance as 'harmful' after dermal exposure. High concentrations in the air may cause narcosis.

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Experimental/calculated data:

LC50 rat (by inhalation): 3,28 mg/l (OECD Guideline 403)

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: Risk of serious damage to eyes.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

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Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Information on: xylene

Assessment of irritating effects:

Skin contact causes irritation. Eye contact causes irritation.

Respiratory/Skin sensitization

Experimental/calculated data:

guinea pig: Caused skin sensitization in animal studies.

The statement for sensitization was derived from products of similar composition.

Germ cell mutagenicity

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

Information on: xylene

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Information on: xylene

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: xylene

Assessment of teratogenicity:

In animal studies, the substance did not cause malformations.

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Specific target organ toxicity (repeated exposure)

Assessment of STOT single:

The available information is not sufficient for evaluation.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment of repeated dose toxicity:

No reliable data was available concerning repeated dose toxicity.

Information on: xylene

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. Damages the central nerve system. The substance can cause changes in the following organs after repeated exposure to large quantities: Liver Kidney

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

Misuse can be harmful to health. May cause paraesthesia.

SECTION 12: Ecological Information

12.1 Toxicity

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Toxicity to fish:

*LC50 (96 h) 0.0028 mg/l, *Oncorhynchus mykiss**

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Aquatic invertebrates:

*EC50 (48 h) 0.000007 mg/l 6,95 ng/l, *Chironomus riparius* (OECD Guideline 202, part 1)*

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Aquatic plants:

*EC50 (96 h) > 0,1 mg/l, *Pseudokirchneriella subcapitata* (other)*

12.2 Persistence and degradability

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

Information on: xylene

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components. The product is highly volatile and can be eliminated from water by stripping.

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12.3 Bioaccumulative potential

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Bioaccumulation potential:

Bioconcentration factor: 1.204

Significant accumulation in organisms is not to be expected.

Information on: xylene

Bioaccumulation potential:

Bioconcentration factor: < 25,9 (56 d), Salmo gairdneri, syn. O. mykiss.

12.4 Mobility in soil (and other compartments if available)

Information on: cypermethrin cis/trans +/- 40/60; (RS)- α -cyano-3-phenoxybenzyl(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6 Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

12.7 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Container:

Triple rinse empty container and add residue to the spray tank, then crush rinsed container and bury in a suitable landfill.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Product:

Dispose of this product only by using according to the label or at an approved landfill or at an approved facility. DO NOT burn product. DO NOT contaminate water with product or used container.

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SECTION 14: Transport Information

Commercial transport:

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

UN number:	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains XYLENE, ARCHIVE: cypermethrin)
Transport hazard class(es):	3, EHSM
Packing group:	III
Environmental hazards:	Yes
Marine pollutant:	Yes
HAZCHEM:	3W

Public transport:

Do NOT carry this product on a passenger service vehicle.

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

For the user of this plant-protective product applies:

To avoid risks to man and the environment, comply with the instructions for use.

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NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR000257.

See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, Nos. P2810 and A5671.

For registration conditions relating to the use of RIPCORD in horticulture see www.nzfsa.govt.nz/acvm, P2810.

For registration conditions relating to the use of RIPCORD for animal health see www.nzfsa.govt.nz/acvm, A5671.

MPI Approved Type B (All animal product except dairy).

MPI approved for use in farm dairies and recognized for use in dairy processing.

15.2 Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the products properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

| Vertical lines in the left-hand margin indicate an amendment from the previous version.