

# SAFETY DATA SHEET

## Temprid® 75 Residual Insecticide

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

#### 1.1 Product identifier

**Trade name** Temprid® Residual Insecticide  
**Product code (UVP)** 79726996

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

**Use** Insecticide  
**EPA Approval** HSR100720

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

**Importer/distributor** Garrards (NZ) Ltd  
Unit 4/27B Cain Road  
Penrose  
Auckland 0627  
New Zealand  
Telephone: 09 526 5232  
www.garrards.co.nz

#### 1.4 Emergency telephone numbers

**Emergency Number** **For specialist advice in an emergency call +64 9801 0034 or 0800 425 459 toll free.**  
The toll free phone number is possibly accessible, but not guaranteed from payphones within New Zealand and is not accessible from outside of New Zealand.

**National Poisons Centre** 0800 764 766 [0800 POISON]

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020**

Acute inhalation toxicity Category 4

H332 Harmful if inhaled.

Acute oral toxicity Category 4

H302 Harmful if swallowed.

Skin sensitisation Category 1

H317 May cause an allergic skin reaction.

Effect on or via lactation.

H362 May cause harm to breast-fed children.

Specific target organ toxicity, repeated exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure if inhaled or swallowed.

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Hazardous to the aquatic environment, acute Category 1

H400 Very toxic to aquatic life.

Hazardous to the aquatic environment, chronic Category 1

H410 Very toxic to aquatic life with long lasting effects

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

### 2.2 Label elements

Labelling in accordance with Hazardous Substances (Labelling) Notice 2017

#### Pictograms



**Signal word:** Warning

#### Hazard statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H362	May cause harmful to breast fed children.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled or swallowed.
H410	Very toxic to aquatic life with long lasting effects.
H422	Toxic to the soil environment.
H432	Toxic to terrestrial vertebrates.
H441	Very toxic to terrestrial invertebrates.

#### Precautionary statements

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash hands and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing.
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before re-use.
P321	Specific treatment (see supplemental first aid instructions on this label).
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P308+P313	IF exposed or concerned: Call a POISON CENTRE or doctor/physician.
P391	Collect spillage.

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P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Suspension concentrate (SC) containing Beta-cyfluthrin 25 g/L and Imidacloprid 50 g/L

#### Hazardous components

Name	CAS-No.	Conc. [%]
Beta -cyfluthrin	1820573-27-0	2.31
Imidacloprid	138261-41-3	4.63
Glycerine	56-81-5	>10 - ≤ 30
Sulfonated aromatic polymer, sodium salt	68425-94-5	<1 - <10
1,2-Benzisothiazol-3(2H)-one	2634-33-5	> 0.05 – < 1.0
Other ingredients	Proprietary	To balance

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General advice</b>	If exposed or concerned, get medical advice. If medical advice is needed, have product container or label at hand. Contact the National Poisons Centre 0800 764 766 (0800 POISON). Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a doctor or National Poisons Centre immediately for advice.
<b>Skin contact</b>	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist get medical advice.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Call a doctor or National Poisons Centre immediately for advice.

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

<b>Symptoms</b>	Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing
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Systemic:, discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness

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

<b>Risks</b>	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
<b>Treatment</b>	Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae. In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable</b>	High volume water jet

**5.2 Special hazards arising from the substance or mixture** In the event of a fire the following compounds/gases may be released: hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), hydrogen fluoride, carbon monoxide, nitrogen oxides.

### 5.3 Advice for firefighters

<b>Special protective equipment for firefighters</b>	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

<b>Precautions</b>	Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment.
<b>6.2 Environmental precautions</b>	Contain spillage. Do not allow to get into surface water, drains and ground water.

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### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Comply with any local regulations.

**6.4 Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** Read label before use. Use only outdoors or in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** No specific information.

**Hygiene measures** Avoid inhalation of mist, vapour or spray and contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing immediately and wash before reuse. Items that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.  
Storage of more than 100L requires signage, secondary containment and an emergency response plan.

**Advice on common storage** Keep away from food, drink and animal feeding stuffs.

**Suitable materials** HDPE (high density polyethylene)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Exposure	Basis
Beta-Cyfluthrin	1820573-27-0	0.01 mg/m <sup>3</sup> (TWA)	Inhalation	OES BCS*
Imidacloprid	138261-41-3	0.7 mg/m <sup>3</sup> (TWA)	Inhalation	OES BCS*
Glycerine (mist)	56-81-5	0.7 mg/m <sup>3</sup> (TWA)	Inhalation	NZ TWA**

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

\*\* NZ Workplace exposure standards and biological exposure indices, WORKSAFE, ed. 13, April 2022

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### 8.2 Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

Respiratory protection is not required under anticipated circumstances of exposure when product is used outdoors and in well-ventilated area.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

#### Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0.4 mm
Protective index	Class 6
Directive	Protective gloves complying with relevant standard

#### Eye protection

Wear chemical goggles.

#### Skin and body protection

Wear standard coveralls. If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

#### General information

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Light beige or light brown liquid suspension
Odour	No information
Odour threshold	No information
pH	4.5 - 7.0 (neat) (23 °C)

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<b>Freezing point</b>	No information
<b>Initial boiling point and boiling range</b>	No information
<b>Flash point</b>	No information
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	No information
<b>Vapour pressure</b>	No information
<b>Vapour density</b>	No information
<b>Relative density</b>	ca. 1.08 g/cm <sup>3</sup> at 20 °C
<b>Solubility</b>	In water: Beta-Cyfluthrin, 0.0019 mg/L Imidacloprid, 610 mg/L
<b>Partition coefficient: n-octanol/water</b>	Beta-Cyfluthrin: log Pow 6.18 at 22 °C Imidacloprid: log Pow 0.57
<b>Auto-ignition temperature</b>	No information
<b>Decomposition temperature</b>	No information
<b>Viscosity, dynamic</b>	No information
<b>Particle characteristics</b>	No information
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Strong acids, strong bases, strong oxidizing agents.

**10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute oral toxicity** Classified as harmful if swallowed.

**Acute inhalation toxicity** Classified as harmful if inhaled.

**Acute dermal toxicity** Not classified

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<b>Skin irritation</b>	Slight skin irritation based on information on active ingredients.
<b>Eye irritation</b>	Mild eye irritation based on information on active ingredients.
<b>Respiratory sensitisation</b>	Not classified
<b>Skin sensitisation</b>	Non-sensitizing (Guinea pig). Classified as skin sensitizer because of paresthesia effect.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

### Assessment mutagenicity

Neither Beta-Cyfluthrin nor Imidacloprid are mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Neither Beta-Cyfluthrin nor Imidacloprid are carcinogenic in lifetime feeding studies in rats and mice.

### Assessment toxicity to reproduction

Beta-Cyfluthrin nor Imidacloprid cause reproductive toxicity in a two-generation study in rats but at doses also toxic to parent animals.

### Assessment developmental toxicity

Beta-Cyfluthrin nor Imidacloprid cause developmental toxicity only at dose levels toxic to the dams. The developmental effects seen are related to maternal toxicity.

### Assessment of toxicity by lactation

Beta-Cyfluthrin is identified as being harmful to breast-fed children.

### Assessment STOT Specific target organ toxicity – single exposure

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

### Assessment STOT Specific target organ toxicity – repeated exposure

Classification triggered by both Beta-Cyfluthrin and Imidacloprid.

Beta-Cyfluthrin causes neurobehavioral effects typical for pyrethroid neurotoxicity.

### Toxicological data

Oral LD50 (Rat) > 1,044 mg/kg (on similar formulation)

Inhalation LC50 (Rat) > 2.30 mg/l Exposure time: 4 h to liquid aerosol (on similar formulation)

Dermal LD50 (Rat) > 2,000 mg/kg (on similar formulation)

### Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Hazard classification</b>	Very toxic to aquatic life and with long lasting effects. Hazardous to soil organisms, terrestrial vertebrates and terrestrial invertebrates.
<b>Toxicity to fish</b>	LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)) 0.068 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient Beta-Cyfluthrin.  LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)) 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient Imidacloprid.
<b>Toxicity to aquatic invertebrates</b>	EC50 ( <i>Daphnia magna</i> (Water flea)) 0.29 µg/l Exposure time: 48 h The value mentioned relates to the active ingredient Beta-Cyfluthrin. EC50 ( <i>Daphnia magna</i> (Water flea)) 85 mg/l



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Exposure time: 48 h

The value mentioned relates to the active ingredient  
Imidacloprid.

LC50 (*Chironomus riparius* (non-biting midge)) 0.0552 mg/L

Exposure time: 24 h

The value mentioned relates to the active ingredient  
Imidacloprid.

LC50 (*Chironomus riparius* (non-biting midge)) 2.09 µg/L

Exposure time: 28 d

The value mentioned relates to the active ingredient  
Imidacloprid.

### Toxicity to aquatic plants

IC50 (*Desmodesmus subspicatus* (green algae)) > 0.01 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient Beta-Cyfluthrin.  
No acute toxicity was observed at its limit of water solubility.

IC50 (*Desmodesmus subspicatus* (green algae)) > 0.10 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient Imidacloprid.

## 12.2 Persistence and degradability

### Biodegradability

Beta-Cyfluthrin:

Not rapidly biodegradable.

Imidacloprid:

Not rapidly biodegradable.

### Koc

Beta-Cyfluthrin: Koc: 508 -3179

Imidacloprid: 225

## 12.3 Bioaccumulative potential

### Bioaccumulation

Beta-Cyfluthrin: Bioconcentration factor (BCF) 1,400

Does not bioaccumulate.

Imidacloprid:

Does not bioaccumulate

## 12.4 Mobility in soil

### Mobility in soil

Beta-Cyfluthrin: Immobile in soil

Imidacloprid: Moderately mobile in soil.

## 12.5 Results of PBT and vPvB assessment

### PBT and vPvB assessment

Beta-Cyfluthrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Imidacloprid: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

## 12.6 Other adverse effects

### Additional ecological information

No further ecological information is available.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

<b>Product</b>	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
<b>Contaminated packaging</b>	Triple rinse containers. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

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### SECTION 14: TRANSPORT INFORMATION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

#### ADR/RID/ADN

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazchem Code	3Z

#### IMDG

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

#### IATA

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environ. Hazardous Mark	YES

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

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### SECTION 15: REGULATORY INFORMATION

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

##### HSNO Act 1996

HSNO substance No. HSR100720  
HSNO Controls See [www.epa.govt.nz](http://www.epa.govt.nz)

##### ACVM Act 1996

ACVM registration No. Exempt  
ACVM conditions See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

**Other product approvals** Approved Maintenance Compound Type B

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### SECTION 16: OTHER INFORMATION

**Date issued:** 20<sup>th</sup> February 2023

**Reason for issue:** Change is supplier and 5-yearly review, update to GHS

**Replaces:**

#### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World Health organisation

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.