# **SAFETY DATA SHEET**



# according to Workplace Safety and Health Regulations Singapore

Electro Contact Cleaner Spray

# Section 1. Identification

**Product identifier** : Electro Contact Cleaner Spray

Product code : 112100

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

Aerosol product-Surface treatment products-Cleaning agent

Supplier's details : WEICON GmbH & Co. KG

Königsberger Str. 25, 48157 Münster, Germany phone: +49 251 93220, Fax: +49 251 9322244 email: info@weicon.de, URL: www.weicon.de

e-mail address of person responsible for this SDS

: msds@weicon.de

**Emergency telephone** 

number

: EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333

(English)

TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44

1865 407333 (English)

# Section 2. Hazards identification

Classification of the substance or mixture : AEROSOLS - Category 1

SKIN CORROSION/IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATIC HAZARD (LONG-TERM) - Category 2

#### GHS label elements, including precautionary statements

Hazard pictograms







Signal word : Danger

**Hazard statements** : H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if

heated.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing dust or mist. P264 - Wash thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves.

**Response**: P391 - Collect spillage.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

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# Section 2. Hazards identification

Storage : P405 - Store locked up.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 - Dispose of waste according to applicable legislation.

Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	≥50 - ≤75	-
pentane	≥10 - ≤25	109-66-0
alcohol [Dry]	≤10	64-17-5
2-propanol	≤3	67-63-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

# Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been

> swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

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

## Potential acute health effects

Eye contact : No known significant effects or critical hazards.

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# Section 4. First aid measures

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness

**Skin contact**: Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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# Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

**Conditions for safe storage,** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

## Occupational exposure limits

Ingredient name	Exposure limits
pentane	Workplace Safety and Health Act (Singapore, 2/2006).  PEL (long term): 600 ppm 8 hours.  PEL (long term): 1770 mg/m³ 8 hours.  PEL (short term): 2210 mg/m³ 15 minutes.  PEL (short term): 750 ppm 15 minutes.
alcohol [Dry]	Workplace Safety and Health Act (Singapore, 2/2006).  PEL (long term): 1000 ppm 8 hours.  PEL (long term): 1880 mg/m³ 8 hours.
2-propanol	Workplace Safety and Health Act (Singapore, 2/2006).  PEL (long term): 400 ppm 8 hours.  PEL (long term): 983 mg/m³ 8 hours.  PEL (short term): 1230 mg/m³ 15 minutes.  PEL (short term): 500 ppm 15 minutes.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended: 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

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# Section 8. Exposure controls/personal protection

: Personal protective equipment for the body should be selected based on the task **Body protection** 

being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static

discharges, clothing should include anti-static overalls, boots and gloves.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type AX) and particulate filter

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Aerosol. Color : Colorless. Odor : Characteristic.

: Not available. **Odor threshold** pН

: Not applicable. : Not applicable. Melting point/freezing point

Boiling point, initial boiling point, and boiling range

: Not available.

Flash point : Closed cup: Not applicable.

**Evaporation rate** : Not available. **Flammability** : Not available. : Lower: 0.8%

Lower and upper explosion limit/flammability limit

Vapor pressure : 57.3 kPa (429.79 mm Hg)

Relative vapor density : Not available. Relative density : Not applicable.

: 0.669 g/cm<sup>3</sup> [20°C (68°F)] Density

Solubility(ies)

Not available.

Solubility in water : 5 g/l Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

: Not available.

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available. Heat of combustion : 13.7 kJ/g **Viscosity** : Not applicable.

Flow time (ISO 2431) **Particle characteristics** 

Median particle size : Not applicable.

Aerosol product

Type of aerosol : Spray Flame projection : 15 mm

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# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials**: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

**SADT**: Not available.

# **Section 11. Toxicological information**

# Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours
alcohol [Dry]	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/kg	-
2-propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
alcohol [Dry]	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
2-propanol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

## **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Reproductive toxicity**

Not available.

## **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

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# **Section 11. Toxicological information**

Name	Category	Route of exposure	Target organs
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Category 3	-	Narcotic effects
pentane 2-propanol	Category 3 Category 3	-	Narcotic effects Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation**: Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering

redness

**Inhalation**: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : 1

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

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# **Section 11. Toxicological information**

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

# **Numerical measures of toxicity**

# **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
pentane	N/A	N/A	N/A	364	N/A
alcohol [Dry]	7000	N/A	N/A	124.7	N/A
2-propanol	5000	12800	N/A	N/A	N/A

# **Acute toxicity estimates**

	ATE value
Not available.	

# Section 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
alcohol [Dry]	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 3306 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 12.9 g/L Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 12800 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 5577000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3715000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6076000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 5680 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 9248000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
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# Section 12. Ecological information

	Acute LC50 11000000 μg/l Marine water	Fish - Alburnus alburnus	96 hours
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Acute LC50 12720 ppm Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 14 ppm Fresh water	Algae - Eutreptiella sp.	96 hours
	Chronic NOEC 350 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours
	Chronic NOEC 50 ul/L Marine water	Algae - <i>Hormosira banksii</i> - Gamete	72 hours
	Chronic NOEC 20 ppm Fresh water	Algae - Prorocentrum minimum	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki</i> - Larvae	12 weeks
2-propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1400000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
pentane	3.45	171	Low
alcohol [Dry]	-0.35	-	Low
2-propanol	0.05	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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# **Section 14. Transport information**

	UN	IMDG	IATA	ADR/RID
UN number	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, pentane)	Aerosols, flammable (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, pentane)	AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, pentane)
Transport hazard class(es)	2.1	2.1	2.1	2
Packing group	-	-	-	-
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.

### **Additional information**

UN : <u>Special provisions</u> 63, 190, 277, 327, 344, 381

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-D, S-U

**Special provisions** 63, 190, 277, 327, 344, 381, 959

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y203.

Special provisions A145, A167, A802

**ADR/RID** : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg. Limited quantity 1 L

**Special provisions** 190, 327, 625, 344

Tunnel code (D)

**ADR Classification Code: 5F** 

**Special precautions for user**: **Transport within user's premises:** always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

#### Singapore - hazardous chemicals under government control

None.

## **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

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# Section 15. Regulatory information

Not listed

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.

**Turkey**: All components are listed or exempted.

United States : Not determined.Viet Nam : Not determined.

# Section 16. Other information

**History** 

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revision

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

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)

N/A = Not available SGG = Segregation Group UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
, , ,	On basis of test data Calculation method Calculation method
Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

**References**: Not available.

✓ Indicates information that has changed from previously issued version.

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# Section 16. Other information

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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