

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/31/2022

Reviewed on 07/31/2022

### 1 Identification

**Product identifier**

**Trade name: FYREWASH F2**

**Article number:** 73790

**Application of the substance / the mixture**

Chemical cleaning solutions for use in gas turbine engines and cleaning of gas turbines

**Details of the supplier of the safety data sheet**

**Manufacturer / Importer / Supplier:**

Romaco BV  
Edisonstraat 11  
NL - 3261 LD Oud-Beijerland  
The Netherlands  
Tel: +31 186 615244  
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**Information department:** Last edition of Material Safety Data Sheet on: www.rochem.nl

**Emergency telephone number:**

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Australia:	+61 18000 74234 (Toll Free) access from Australia only

### 2 Hazard(s) identification

**Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2      H351 Suspected of causing cancer.



GHS07

Eye Irritation 2A      H319 Causes serious eye irritation.

Sensitization - Skin 1      H317 May cause an allergic skin reaction.

**Label elements**

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07, GHS08

**Signal word** Warning

**Hazard-determining components of labeling:**

Terpinolene

**Hazard statements**

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

**Precautionary statements**

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

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

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

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

If eye irritation persists: Get medical advice/attention.

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If on skin: Wash with plenty of water.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**
**NFPA ratings (scale 0 - 4)**


Health = 2

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**


Health = 0

Fire = 0

Reactivity = 0

**Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/information on ingredients**
**Mixtures**
**Description:**

Mixture of substances specified below, possibly with non-hazardous additions or with components whose concentration is lower than the classification values..

**Dangerous components:**

34590-94-8	Dipropylene glycol monomethyl ether Flammable Liquids 4, H227	2.5-10%
586-62-9	Terpinolene ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Sensitization - Skin 1, H317	2.5-10%
112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irritation 2A, H319	2.5-10%
160875-66-1	Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy ⚠ Eye Damage 1, H318	2.5-10%
111-76-2	2-butoxyethanol ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	2.5-10%
68603-38-3	Alkyl diethanolamide ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319	≤2.5%
9043-30-5	Isotridecylalcohol, ethoxylated ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302	≤2.5%
111-42-2	2,2'-iminodiethanol ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315	<1%

**4 First-aid measures**
**Description of first aid measures**
**General information:**

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

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**After eye contact:**

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

**After ingestion:**

Do not induce vomiting; immediately call for medical help.

Rinse mouth with plenty of water.

**Information for doctor:**
**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**
**Suitable extinguishing agents:**

 CO<sub>2</sub>, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

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

Ensure adequate ventilation

Wear protective clothing.

**Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Remainder dilute with plenty of water.

for disposing to sewer: seek approval from Sewer System Operator

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to regulations

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**
**PAC-1:**

34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
111-76-2	2-butoxyethanol	60 ppm
111-42-2	2,2'-iminodiethanol	3 mg/m <sup>3</sup>

**PAC-2:**

34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
111-76-2	2-butoxyethanol	120 ppm
111-42-2	2,2'-iminodiethanol	28 mg/m <sup>3</sup>

**PAC-3:**

34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
111-76-2	2-butoxyethanol	700 ppm
111-42-2	2,2'-iminodiethanol	130 mg/m <sup>3</sup>

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**7 Handling and storage**

**Handling:**

**Precautions for safe handling**

Use only in well ventilated areas (eg natural ventilation).  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

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

**Storage:**

**Requirements to be met by storerooms and tanks:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
Protect from frost.

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:** No further data; see section 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

<b>34590-94-8 Dipropylene glycol monomethyl ether</b>	
PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Long-term value: 50 ppm
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>	
TLV	Long-term value: 10* ppm *Inhalable fraction and vapor
<b>111-76-2 2-butoxyethanol</b>	
PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3
<b>111-42-2 2,2'-iminodiethanol</b>	
REL	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV	Long-term value: 1* mg/m <sup>3</sup> Skin; *inhalable fraction and vapor, A3

**DNELs**

<b>34590-94-8 Dipropylene glycol monomethyl ether</b>		
Oral	Long-term - systemic effects	1.67 mg/kg bw/day (Consumer)
Dermal	Long-term - systemic effects	15 mg/kg bw/day (Consumer)
		65 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects	37.2 mg/m <sup>3</sup> (Consumer)
		310 mg/m <sup>3</sup> (Worker)
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>		
Oral	Long-term - systemic effects	1.3 mg/kg bw/day (Worker)

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Dermal	Long-term - systemic effects	20 mg/kg bw/day (Consumer) 10 mg/kg bw/day (Worker)
	Inhalative	Acute - local effects Acute - systemic effects Long-term - local effects Long-term - systemic effects
		50.6 mg/m3 (Consumer) 34 mg/m3 (Worker) 67.3 mg/m3 (Worker) 34 mg/m3 (Consumer) 67.5 mg/m3 (Worker)

**111-76-2 2-butoxyethanol**

Oral	Long-term - systemic effects	3.2 mg/kg bw/day (Consumer)
	Acute - systemic effects	13.4 mg/kg bw/day (Consumer)
Dermal	Long-term - systemic effects	38 mg/kg bw/day (Consumer) 75 mg/kg bw/day (Worker)
	Acute - systemic effects	44.5 mg/kg bw/day (Consumer) 89 mg/kg bw/day (Worker)
Inhalative	Acute - local effects	123 mg/m3 (Consumer) 246 mg/m3 (Worker)
	Acute - systemic effects	426 mg/m3 (Consumer) 633 mg/m3 (Worker)
	Long-term - systemic effects	49 mg/m3 (Consumer) 98 mg/m3 (Worker)

**68603-38-3 Alkyl diethanolamide**

Oral	Long-term - systemic effects	6.25 mg/kg bw/day (Consumer)
Dermal	Long-term - systemic effects	2.5 mg/kg bw/day (Consumer) 4.16 mg/kg bw/day (Worker)
	Inhalative	Long-term - systemic effects
		21.73 mg/m3 (Consumer) 73.44 mg/m3 (Worker)

**PNECs**

**34590-94-8 Dipropylene glycol monomethyl ether**

Fresh water	19 mg/l
Marine water	1.9 mg/l
Intermittent releases	190 mg/l
Fresh water sediment	70.2 mg/kg
Marine sediment	7.02 mg/kg
Soil	2.74 mg/kg
Sewage treatment	4,168 mg/l

**112-34-5 2-(2-butoxyethoxy)ethanol**

Fresh water	1 mg/l
Marine water	0.1 mg/l
Intermittent releases	3.9 mg/l
STP	200 mg/l
Fresh water sediment	4 mg/kg
Marine sediment	0.4 mg/kg
Soil	0.4 mg/kg

**111-76-2 2-butoxyethanol**

Fresh water	8.8 mg/l
Marine water	0.88 mg/l
Fresh water sediment	8.14 mg/kg
Marine sediment	3.46 mg/kg
Soil	2.8 mg/kg
Sewage treatment	463 mg/l

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**68603-38-3 Alkyl diethanolamide**

Fresh water	0.007 mg/l
Marine water	0.001 mg/l
Intermittent releases	0.032 mg/l
Fresh water sediment	1.227 mg/kg
Marine sediment	0.123 mg/kg
Soil	0.241 mg/kg
Sewage treatment	830 mg/l

**Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

BEI	200 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

**Breathing equipment:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labeling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves made of Nitrile rubber, NBR

Thickness: 0.7mm

**Penetration time of glove material**

Permeation: Breakthrough time > 360 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Use safety glasses that meets the requirements of EN 166; latest versions.

Goggles recommended during refilling.

**Limitation and supervision of exposure into the environment** Do not allow to enter in surface water or soil.

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

**pH-value at 20 °C (68 °F):** 7 - 8

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	110 °C (230 °F)

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**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

**Density at 20 °C (68 °F):** 0.97 - 0.99 g/cm<sup>3</sup> (8.095 - 8.262 lbs/gal)

**Relative density** Not determined.

**Vapor density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

**Water:** Fully miscible.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Other information** No further relevant information available.

### 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	>36,541 mg/kg
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**34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,135 mg/kg (Rat)
Dermal	LD50	>19,000 mg/kg (Rabbit)

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	LD50	5,660 mg/kg (Rat)
Dermal	LD50	4,000 mg/kg (rbt)

**111-76-2 2-butoxyethanol**

Oral	LD50	1,200 mg/kg (ATE)
		470 mg/kg (Rat)
Dermal	LD50	220 mg/kg (Rabbit)
Inhalative	LC50/4 h	2.2 mg/l (Rat)

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**68603-38-3 Alkyl diethanolamide**

Log Koc	3.17
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**9043-30-5 Isotridecylalcohol, ethoxylated**

Oral	LD50	>2,000 mg/kg (Rat)
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**111-42-2 2,2'-iminodiethanol**

Oral	LD50	1,600 mg/kg (Rat)
Dermal	LD50	12,200 mg/kg (rbt)

**Primary irritant effect:**
**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

**Carcinogenic categories**
**IARC (International Agency for Research on Cancer)**

111-76-2	2-butoxyethanol	3
111-42-2	2,2'-iminodiethanol	2B

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**
**Toxicity**
**Aquatic toxicity:**
**34590-94-8 Dipropylene glycol monomethyl ether**

NOEC / 21d	≥0.5 mg/l (Daphnia Magna)
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**586-62-9 Terpinolene**

LC50/96h	0.72 mg/l (Pimephales promelas)
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**111-76-2 2-butoxyethanol**

LC50/96h	1,474 mg/l (Oncorhynchus mykiss) (OECD TG 203)
EC50/48h	1,550 mg/l (Daphnia Magna) (OECD 202)
EC50/72h	911 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC / 21d	>100 mg/l (Daphnia Magna)

**68603-38-3 Alkyl diethanolamide**

Bioconcentrationfactor (BCF)	112.53 (Fish)
LC50/96h	18.6 mg/l (Algae)
	5.1 mg/l (Fish)
EC50/48h	3.2 mg/l (Daphnia Magna)

**Persistence and degradability** Easily biodegradable

**Behavior in environmental systems:**
**Bioaccumulative potential**
**34590-94-8 Dipropylene glycol monomethyl ether**

Log Pow/Cow	0.004
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**Mobility in soil** No further relevant information available.

**Ecotoxic effects:**
**Remark:** Harmful to fish

**Additional ecological information:**
**General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

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**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

### 13 Disposal considerations

**Waste treatment methods**

**Recommendation:**

For disposing to sewer: seek approval from Sewer System Operator

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Packaging can be reused or recycled after cleaning.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

**UN-Number**

**DOT, ADR/RID/ADN, IMDG, IATA**

Void

**ADN**

NOT REGULATED

**UN proper shipping name**

**DOT, ADR/RID/ADN, IMDG, IATA**

Void

**ADN**

NOT REGULATED

**Transport hazard class(es)**

**DOT, ADR/RID/ADN, IMDG, IATA**

**Class**

Void

**ADN/R Class:**

NOT REGULATED

**Packing group**

**DOT, ADR/RID/ADN, IMDG, IATA**

Void

**Environmental hazards:**

**Marine pollutant:**

Yes (P)

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78**

**and the IBC Code**

Not applicable.

**UN "Model Regulation":**

Void

### 15 Regulatory information

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

No further relevant information available.

**Sara**

**Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**

112-34-5	2-(2-butoxyethoxy)ethanol
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111-76-2	2-butoxyethanol
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111-42-2	2,2'-iminodiethanol
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**Hazardous Air Pollutants**

111-42-2	2,2'-iminodiethanol
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**Proposition 65**

**Chemicals known to cause cancer:**

111-42-2	2,2'-iminodiethanol
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**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL
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**TLV (Threshold Limit Value)**

111-76-2	2-butoxyethanol	A3
111-42-2	2,2'-iminodiethanol	A3

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07, GHS08

**Signal word** Warning

**Hazard-determining components of labeling:**

Terpinolene

**Hazard statements**

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

**Precautionary statements**

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

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

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

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

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

**Relevant phrases**

H226 Flammable liquid and vapor.

H227 Combustible liquid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

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

**Department issuing SDS:** Environment protection department.

**Contact:**

**Date of previous version** 23-06-2022

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**Version number of previous version: 8.0**

**Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation  
 ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 P: Marine Pollutant  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (Division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 BEI: Biological Exposure Limit  
 EC50: Effective Concentration, 50 percent  
 WEL: Workplace Exposure Limits  
 IOELVS: Indicative Occupational Exposure Limit Values  
 mPa.s: milliPascal per second  
 Flammable Liquids 3: Flammable liquids – Category 3  
 Flammable Liquids 4: Flammable liquids – Category 4  
 Acute Toxicity - Oral 4: Acute toxicity – Category 4  
 Skin Irritation 2: Skin corrosion/irritation – Category 2  
 Eye Damage 1: Serious eye damage/eye irritation – Category 1  
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 Carcinogenicity 2: Carcinogenicity – Category 2  
 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Aspiration Hazard 1: Aspiration hazard – Category 1

**Disclaimer**

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