

According to Regulation (EC) No 1907/2006

MICACEOUS IRON OXIDE (MIO) AIRLESS SPRAY



Version number: 3
Issued: 2024-01-04
Replaces SDS: 2020-09-14

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

1.1. Product identifier

Trade name

MICACEOUS IRON OXIDE (MIO) AIRLESS SPRAY

UFI code

8220-00Y8-7000-Q95P

Contains

Xylene Alkyl quaternary Ammonium clay

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

Product type

Paints and varnishes

Relevant identified uses

One-pack performance coatings

Not suitable for use in

Any other Purpose

1.3. Details of the supplier of the safety data sheet

Manufacturer

Castle Paints Ltd

Address

Cloncollig Ind Estate
R35X993 Tullamore
Ireland

Telephone

0579351583

Email

info@castlepaints.ie

Email

info@castlepaints.ie

1.4. Emergency telephone number

Poison center/Additional emergency number

+353 1 809 2566 - National Poisons Information Centre

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Acute toxicity, inhalation, hazard category 4
Skin irritation, hazard category 2
Eye irritation, hazard category 2
Specific Target Organ Toxicity — Repeated exposure, hazard category 2
Flammable liquids, hazard category 3
Specific Target Organ Toxicity — Single exposure, hazard category 1

Hazard statements

H226, H304, H315, H319, H373

Supplemental hazard statements

EUH066, EUH211

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Supplemental hazard statements

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P403 + P235 Store in a well-ventilated place. Keep cool.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P370 + P378 In case of fire: Use water-spray, foam, dry-powder or carbon dioxide to extinguish.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray..

P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Xylene	1330-20-7 215-535-7 01-2119488216-32 601-022-00-9	>15 - <30%	Flam. Liq. 3, Asp. Tox. 1, Acute Tox. 4 - dermal, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4 - inhalation, STOT SE 3 - resp. tract irrit., STOT RE 2	H226, H304, H312, H315, H319, H332, H335, H373 - -	C
Xylenes	- - 01-2119488216-32 -	15 - <25%	Flam. Liq. 3, Asp. Tox. 1, Acute Tox. 4 - dermal, Skin Irrit. 2, Acute Tox. 4 - inhalation, STOT RE 2	H226, H304, H312, H315, H332, H373 - -	-
Titanium dioxide	13463-67-7 236-675-5 - -	0 - 10%	-	- - -	-
Alkyl quaternary Ammonium clays mixture	- - - -	0.5 - <2.5%	STOT RE 2	H373 - -	-
N-pentan-2-ylidenehydroxylamine	623-40-5 484-470-6 01-0000020248-72 -	0 - <0.5%	Acute Tox. 4 - oral, Eye Irrit. 2, STOT RE 2, Aquatic Chronic 3	H302, H319, H373, H412 - -	-
Calcium oxide	1305-78-8 215-138-9 01-2119475325-36 -	0 - <0.25%	Skin Irrit. 2, Eye Dam. 1, STOT SE 3 - resp. tract irrit.	H315, H318, H335 - -	<input type="checkbox"/> ¹ self classified
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2%aromatics	64742-48-9 918-481-9 01-2119457273-39 -	0 - <0.25%	Asp. Tox. 1	H304, EUH066 - -	<input type="checkbox"/> ¹

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SECTION 4: First aid measures

4.1. Description of first aid measures

GENERAL INFORMATION; Provide General first aid, rest and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless of how minor they seem. First aid personnel must be aware of own risk during rescue.

Inhalation

INHALATION; Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.

Skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. SKIN CONTACT; Remove affected person from source of contamination. Remove contaminated clothing and shoes and wash before reuse. Wash exposed area with soap and water. Get medical attention if irritation develops.

Eye contact

EYE CONTACT; Avoid Contamination of unaffected eye. Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream of water for at least 15 minutes. Seek medical attention.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. INGESTION; If this product is ingested, remove victim immediately from source of exposure. Provide fresh air, warmth and rest preferably in comfortable upright sitting position. Never give anything by mouth to an unconscious person. Rinse mouth out and drink plenty of water. Do not induce vomiting. Seek medical advise (provide label where possible)

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

The severity of the symptoms described will vary dependant on the concentration and the length of exposure. Causes damage to organs through prolonged or repeated exposure.

Inhalation

Inhalation of high concentrations of vapours may cause drowsiness and dizziness. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause damage to organs through prolonged or repeated exposure to inhalation.

Skin contact

Contact with skin may cause irritation. There may be irritation and redness at the site of contact. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

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Ingestion

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of the swallowed or vomited production can cause severe pulmonary complications.

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

IF exposed or concerned, get medical advice. Treat Symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide Extinguishing powder Water mist

Unsuitable extinguishing media

High Volume Water Jet

5.2. Special hazards arising from the substance or mixture

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. May Produce Hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from a safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.

Other

Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in section 8 of this safety data sheet. Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Keep unnecessary and unprotected personnel from entering. Follow safe handling advice and personal protective equipment recommendations for normal use of product.

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6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Wear appropriate personal protective equipment as specified in section 8. Ventilate and evacuate the area. Eliminate all ignition sources. Stop leak if possible without risk. Cover drains. Absorb spillage with non-combustible absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitable labelled container. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Section 13: Disposal Considerations (non-mandatory) Section 8: Exposure Controls/Personal Protection

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Ground/bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take precautionary measures against static discharge. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

General hygiene

Avoid contact with skin, eyes and clothes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Section 8: Exposure Controls/Personal Protection Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always close containers tightly after the removal of product. Store in a well-ventilated place. Keep cool. Take care when re-opening already used containers.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2. Use only in accordance with these directions, Keep container tightly closed and sealed when not in use.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Titanium Dioxide	13463-67-7 236-675-5	- 10	- -	-	Total Inhalable Dust	-
Titanium Dioxide	13463-67-7 236-675-5	- 4	- -	-	Respirable Dust	-
Xylene	1330-20-7 215-535-7	50 221	100 442	-	Sk, IOELV	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Inhalation	221 mg/m ³	Workers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Acute (short term) Inhalation	442 mg/m ³	Workers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Inhalation	221 mg/m ³	Workers	Local
Xylene (1330-20-7/215-535-7)	DNEL	Acute (short term) Inhalation	442 mg/m ³	Workers	Local
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Dermal	212 mg/kg bw/day	Workers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Inhalation	65.3 mg/m ³	Consumers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Acute (short term) Inhalation	260 mg/m ³	Consumers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Inhalation	65.3 mg/m ³	Consumers	Local
Xylene (1330-20-7/215-535-7)	DNEL	Acute (short term) Inhalation	260 mg/m ³	Consumers	Local
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Dermal	125 mg/kg bw/day	Workers	Systemic
Xylene (1330-20-7/215-535-7)	DNEL	Chronic (long term) Oral	5 mg/kg bw/day	Consumers	Systemic

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PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Xylene (1330-20-7/215-535-7)	PNEC	Intermittent releases (freshwater)	0.044 mg/l
Xylene (1330-20-7/215-535-7)	PNEC	Intermittent releases (marine water)	0.004 mg/l
Xylene (1330-20-7/215-535-7)	PNEC	Sewage Treatment Plant	1.6 mg/l
Xylene (1330-20-7/215-535-7)	PNEC	Sediment (freshwater)	2.52 mg/kg sediment dw
Xylene (1330-20-7/215-535-7)	PNEC	Sediment (marine water)	0.252 mg/kg sedi- ment dw
Xylene (1330-20-7/215-535-7)	PNEC	Soil	0.852 mg/kg soil dry weight

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Personal Protective Equipment Symbols



Eye / face protection

Use safety glasses to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU). For professional users: Tightly fitting safety goggles or face-shield may be required for applications producing spray or mist.

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Hand protection

Selection of glove material depends on consideration of the penetration times, rates of diffusion and degradation and concentration specific to the workplace. Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374). Gloves must be inspected prior to use. Suggested material: Neoprene /PVA >8 hours (breakthrough time). Consult manufacturer for specific medical advise on material. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique (without touching the gloves outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.

Other skin protection

Wear appropriate clothing to prevent any possibility of skin contact. For professional users: Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN943.

Respiratory protection

Use in a well ventilated area. For professional users; where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a back up to engineering controls. Suggested filter type: ABEK (EN 14387). Consult manufacturer for specific advise. Where aerosols are in use, use self contained breathing apparatus with a type AX filter or appropriate combined filter (e.g. AX-P3), in compliance with EN 371. Other applications use filter type A/P (EN141). If the respirator is the sole means of protection, use a supplied air self contained breathing apparatus operated in positive pressure mode. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist or other qualified professional. Change filters frequently.

Other

Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment. Process Conditions: Use only according to directions. Ensure that eye flushing systems and safety showers are located close-by in the work place.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Various

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Odour

Hydrocarbons, aromatic

Odour threshold

No information available as testing has not been completed.

Melting point / freezing point

No information available as testing has not been completed.

Boiling point or initial boiling point and boiling range

No information available as testing has not been completed.

Flammability

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Lower and upper explosion limit

not explosive according to EU A.14

Flash point

> 23 °C

Auto-ignition temperature

No information available as testing has not been completed.

Decomposition temperature

No information available as testing has not been completed.

pH

No information available as testing has not been completed.

Kinematic viscosity

No data available

Solubility

Immiscible

Partition coefficient n-octanol/water

No information available as testing has not been completed.

Vapour pressure

No data available

Density and/or relative density

1.46

Relative vapour density

No data available

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VOC %

≤ 490 g/l

Method

EU limit for this product (Cat A/i) (2010) is 500 g/l. Product contains max. 490 g/l.

Particle characteristics

No data available

9.2. Other information

VOC: 490 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with: Strong Oxidising substances and acids.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available as testing has not been completed.

10.4. Conditions to avoid

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from incompatibles such as oxidizing agents, acids, alkalis. Do not mix with other chemicals unless listed on directions.

10.5. Incompatible materials

Strong acid Oxidizing agent Reducing agent

10.6. Hazardous decomposition products

in combustion emits toxic fumes. Combustion products may include but are not limited to; oxides of carbon, unburned hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No Toxicological information for the overall finished product. Not classified based on available information.

Acute toxicity

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Duration of exposure	Test animals
Xylenes /	LD50 Oral	8700 mg/kg	-	Rat
Xylenes /	LD50 Dermal	2000 mg/kg	-	Rabbit
Xylenes /	LC Inhalation	10-20 mg/l	4 hours	Rat
Xylene 1330-20-7 / 215-535-7	LD50 Oral	8700 mg/kg	-	Rat
Xylene 1330-20-7 / 215-535-7	LD50 Dermal	2000 mg/kg	-	Rabbit
Xylene 1330-20-7 / 215-535-7	LC50 Inhalation	10-20 mg/l	4 Hours	Rat

Skin corrosion/irritation

No information available as testing has not been completed.

Serious eye damage/irritation

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

Respiratory or skin sensitisation

Contact with skin may cause irritation. There may be irritation and redness at the site of contact.
May cause an allergic skin reaction.

Germ cell mutagenicity

This product is not classified as a mutagen.

Carcinogenicity

This product is not classified as a carcinogen hazard.

Repeated dose toxicity

This product is not classified as a carcinogen hazard.

Reproductive toxicity

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

STOT-single exposure

The product is not classified as a single exposure specific target organ toxin.

STOT-repeated exposure

This product is not classified as a repeat exposure specific target organ toxin.

Aspiration hazard

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

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11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

No information available as testing has not been completed.

Toxicity

No information available as testing has not been completed.

Aquatic

No information available as testing has not been completed.

Soil

No information available as testing has not been completed.

Acute fish toxicity

No information available as testing has not been completed.

Acute algae toxicity

May cause long lasting harmful effects to aquatic life.

Acute crustacean toxicity

No information available as testing has not been completed.

Micro-/macro organism toxicity

No information available as testing has not been completed.

Chronical toxicity

No information available as testing has not been completed.

12.2. Persistence and degradability

Persistence and degradability

No information available as testing has not been completed.

Decay/transformation

No information available as testing has not been completed.

12.3. Bioaccumulative potential

No information available as testing has not been completed.

12.4. Mobility in soil

Mobility

Immiscible

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12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Waste treatment methods Dispose of waste and residues in accordance with local authority requirements and in accordance with all local, national and international regulations. For waste disposal, use a licenced industrial waste disposal agent.

Packaging

Dispose of this material and its container at hazardous or special waste collection point. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Since emptied containers contain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

14.1. UN number

1263

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

IMDG proper shipping name

Paint Related Material

IATA proper shipping name

Paint Related Material

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14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

IMDG



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

30

IMDG Class

3

ADN Class

3

ADN Class Code

F1

14.4. Packing group

ADR/RID/ADN Packing Group III IMDG Packing Group III IATA Packing Group III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

EMS; F-E, S-E Emergency Action Code; A3 A72 A192 Hazard group 30 Tunnel Restriction Code - (E) /D

14.7. Maritime transport in bulk according to IMO instruments

No data available

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SECTION 15: Regulatory information

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

EU regulations

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Safety information according to Regulation (EC) No. 1907/2006 (REACH), Article 32

National regulations

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Phrase meaning

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT RE 2 - Specific Target Organ Toxicity — Repeated exposure, hazard category 2

Flam. Liq. 3 - Flammable liquids, hazard category 3

STOT SE 1 - Specific Target Organ Toxicity — Single exposure, hazard category 1

Asp. Tox. 1 - Aspiration hazard, hazard category 1

Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

Eye Dam. 1 - Serious eye damage, hazard category 1

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.