

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

**1.1 Product identifier**

Trade name: **PURE AIR**

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

**Application of the substance / the mixture** coating agent

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

**Manufacturer/Supplier:**

**Mursall Active Coating GmbH**

Löwensternstraße 4

5411 Oberalm, Austria

Tel. +43 6245 21811

**Further information obtainable from:**

Robert Kummerer

Email: r.kummerer@active-coating.com

**1.4 Emergency telephone number:**

+43 6245 21811

Available during office hours:

Mo. – Th.: 8-12 h und 13-17 h

Fr.: 8-13 h

**Call the national emergency number!**

\* **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2      H225 Highly flammable liquid and vapour.

Eye Irrit. 2      H319 Causes serious eye irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS02



GHS07

**Signal word** Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P280 Wear protective gloves / eye protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

Contains nanoparticles. Aerosols containing nanoparticles may be formed during spraying. Do not inhale aerosols.

**Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**SECTION 3: Composition/information on ingredients**








**3.2 Mixtures**

**Description:**

Mixture of substances listed below with nonhazardous additions.

Contains nanoparticles.

**Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol  Flam. Liq. 2, H225  Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	40 – 80%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0	tetraethyl silicate  Flam. Liq. 3, H226  Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	< 2.5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide nano  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 2.5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3	butanone  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	< 1%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

Immediately remove any clothing soiled by the product.

#### 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:

Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

Seek medical treatment in case of complaints.

#### After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

#### After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Call a doctor immediately.

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

No further relevant information available.

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

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

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

**For safety reasons unsuitable extinguishing agents:** Water with full jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

CO<sub>x</sub>

In a fire or if heated, a pressure increase will occur and the container may burst.

Fumes can combine with air to form an explosive mixture.

### 5.3 Advice for firefighters

#### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Cool endangered receptacles with water spray.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

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

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

Remove ignition sources, if possible without danger.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

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

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

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

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

**6.4 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.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use non-sparking tools.

Ground and bond container and receiving equipment.

Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear of ignition sources.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store in dry conditions.

Protect from heat and direct sunlight.

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Protect from frost.

Store receptacle in a well ventilated area.

Store in accordance with local/regional/national/international regulations.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Recommended storage temperature:** room temperature

**Storage class:** 3

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

\* **SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

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

**CAS: 64-17-5 ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**CAS: 78-10-4 tetraethyl silicate**

WEL Long-term value: 44 mg/m<sup>3</sup>, 5 ppm

**CAS: 78-93-3 butanone**

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk, BMGV

**Regulatory information** WEL: EH40/2020

**DNELs**

**CAS: 64-17-5 ethanol**

Oral	Long-term exposure - systemic effects	87 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	206 mg/kg bw/d (consumer) 343 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	114 mg/m <sup>3</sup> (consumer) 950 mg/m <sup>3</sup> (workers)

**CAS: 78-10-4 tetraethyl silicate**

Dermal	Long-term exposure - systemic effects	3 mg/kg bw/d (consumer) 56 mg/kg bw/d (workers)
	short-term exposure - systemic effects	3 mg/kg bw (consumer)
Inhalative	Long-term exposure - systemic effects	14 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (workers)
	Long-term exposure - local effects	14 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (workers)
	short-term exposure - systemic effects	14 mg/m <sup>3</sup> (consumer)

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	short-term exposure - local effects	85 mg/m <sup>3</sup> (workers)
<b>CAS: 1314-13-2 zinc oxide nano</b>		
Oral	Long-term exposure - systemic effects	0.83 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	83 mg/kg bw/d (consumer) 83 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	2.5 mg/m <sup>3</sup> (consumer) 5 mg/m <sup>3</sup> (workers)
	Long-term exposure - local effects	0.5 mg/m <sup>3</sup> (workers)
<b>CAS: 78-93-3 butanone</b>		
Oral	Long-term exposure - systemic effects	31 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	412 mg/kg bw/d (consumer) 1,161 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	106 mg/m <sup>3</sup> (consumer) 600 mg/m <sup>3</sup> (workers)

**PNECs**

**CAS: 64-17-5 ethanol**

fresh water	960 µg/l
sea water	790 µg/l
intermittent release (fresh water)	2.75 mg/l
STP	580 mg/l
sediment (fresh water)	3.6 mg/kg dw
sediment (sea water)	2.9 mg/kg dw
soil	0.63 mg/kg dw
oral	0.38 mg/kg food

**CAS: 78-10-4 tetraethyl silicate**

fresh water	0.19 mg/l
sea water	0.019 mg/l
intermittent release (fresh water)	10 mg/l
STP	4,000 mg/l
sediment (fresh water)	0.83 mg/kg dw
sediment (sea water)	0.083 mg/kg dw
soil	0.05 mg/kg dw

**CAS: 1314-13-2 zinc oxide nano**

fresh water	20.6 µg/l
sea water	6.1 µg/l
STP	0.1 mg/l
sediment (fresh water)	117.8 mg/kg dw
sediment (sea water)	56.5 mg/kg dw

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soil	35.6 mg/kg dw
<b>CAS: 78-93-3 butanone</b>	
fresh water	55.8 mg/l
sea water	55.8 mg/l
intermittent release (fresh water)	55.8 mg/l
STP	709 mg/l
sediment (fresh water)	284.74 mg/kg dw
sediment (sea water)	284.7 mg/kg dw
soil	22.5 mg/kg dw
oral	1,000 mg/kg food

**Ingredients with biological limit values:**

**CAS: 78-93-3 butanone**

BMGV 70 µmol/L  
Medium: urine  
Sampling time: post shift  
Parameter: butan-2-one

**Regulatory information** BMGV: EH40/2011

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

**8.2 Exposure controls**

**Appropriate engineering controls**

No further data; see item 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Avoid breathing mist/vapours/spray.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

If vapours/aerosols and/or inadequate ventilation are present, respiratory protection must be worn.

**Hand protection**



Protective gloves

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EN 374

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

**Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Penetration time of glove material**

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

**Eye/face protection**



Tightly sealed goggles

EN 166

**Body protection:** Protective work clothing

**Environmental exposure controls**

Do not allow to enter sewers/ surface or ground water.

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

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Colour:</b>	greenish
<b>Odour:</b>	Alcohol-like
<b>Odour threshold:</b>	No information available.
<b>Melting point/freezing point:</b>	No information available.
<b>Boiling point or initial boiling point and boiling range</b>	No information available.
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	3.5 Vol %
<b>Upper:</b>	15 Vol %
<b>Flash point:</b>	< 21 °C
<b>Auto-ignition temperature:</b>	Product is not selfigniting.

64-17-5	ethanol	363 - 425 ° C
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**Decomposition temperature:** No information available.

**pH** Not determined.

**Viscosity:**

**Kinematic viscosity** No information available.

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**Dynamic:** No information available.

**Solubility**

**water:** miscible

**Partition coefficient n-octanol/water (log value)**

64-17-5	ethanol	-0,35 log Kow
78-93-3	butanone	0,3 log Kow

**Vapour pressure:** Not determined.

**Density and/or relative density**

**Density:** No information available.

**Vapour density** No information available.

**9.2 Other information**

**Appearance:**

**Form:** Fluid

**Important information on protection of health and environment, and on safety.**

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Change in condition**

**Softening point/range**

**Oxidising properties** No information available.

**Evaporation rate** No information available.

**Information with regard to physical hazard classes**

**Explosives** Void

**Flammable gases** Void

**Aerosols** Void

**Oxidising gases** Void

**Gases under pressure** Void

**Flammable liquids**

Highly flammable liquid and vapour.

**Flammable solids** Void

**Self-reactive substances and mixtures** Void

**Pyrophoric liquids** Void

**Pyrophoric solids** Void

**Self-heating substances and mixtures** Void

**Substances and mixtures, which emit flammable**

**gases in contact with water** Void

**Oxidising liquids** Void

**Oxidising solids** Void

**Organic peroxides** Void

**Corrosive to metals** Void

**Desensitised explosives** Void

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Trade name: PURE AIR

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## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Fumes can combine with air to form an explosive mixture.

Violent reactions with:

Alkali metals, alkaline earth metals, acetic anhydride, peroxides, phosphorus oxides, strong oxidants, nitric acid, nitrate, perchlorates, => explosion hazard

### 10.4 Conditions to avoid

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

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

### 10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

## \* SECTION 11: Toxicological information

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

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

#### LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	573 mg/l
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#### CAS: 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat)
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Inhalative	LC50/4 h	124.7 mg/l (rat)
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#### CAS: 78-10-4 tetraethyl silicate

Oral	LD50	6,270 mg/kg (rat)
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Dermal	LD50	5,878 mg/kg (rabbit)
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#### CAS: 1314-13-2 zinc oxide nano

Oral	LD50	> 5,000 mg/kg (rat)
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Inhalative	LC50/4h	2,500 mg/m <sup>3</sup> (mouse)
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#### CAS: 78-93-3 butanone

Oral	LD50	2,193 mg/kg (rat)
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Dermal	LD50	5,000 mg/kg (rabbit)
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**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** Based on available data, the classification criteria are not met.

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**STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

**11.2 Information on other hazards**

Endocrine disrupting properties	
CAS: 78-93-3 butanone	List II

\* **SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

**CAS: 64-17-5 ethanol**

EC50 (48 h) 12,340 mg/l (daphnia) (Daphnia magna)

LC50 (96 h) 12,900 – 15,300 mg/l (fish) (Onchorhynchus mykiss)

**CAS: 1314-13-2 zinc oxide nano**

LC50 (96 h) 0.169 mg/l (fish) (Onchorhynchus mykiss)

**CAS: 78-93-3 butanone**

EC50 (48 h) 308 mg/l (daphnia)

LC50 (96 h) 2,993 mg/l (fish)

EC50 (96 h) 2,029 mg/l (algae)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

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

Only dispose of product residues via authorised companies according to local legislation.

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**European waste catalogue**

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

11 01 99	wastes not otherwise specified
16 03 05*	organic wastes containing hazardous substances

**Uncleaned packaging:**

**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

ADR/RID/ADN, IMDG, IATA

UN1170

**14.2 UN proper shipping name**

ADR/RID/ADN

1170 ETHANOL (ETHYL ALCOHOL) solution

IMDG

ETHANOL (ETHYL ALCOHOL) solution

IATA

ETHANOL solution

**14.3 Transport hazard class(es)**

ADR/RID/ADN, IMDG, IATA



**Class**

3 Flammable liquids.

**Label**

3

**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA

II

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Warning: Flammable liquids.

**Hazard identification number (Kemler code):**

33

**EMS Number:**

F-E,S-E

**Stowage Category**

B

**14.7 Maritime transport in bulk according to IMO**

instruments

Not applicable.

**Transport/Additional information:**

ADR/RID/ADN

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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Transport category 2  
Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 1L  
Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml  
UN "Model Regulation": UN 1170 ETHANOL (ETHYL ALCOHOL) SOLUTION,  
3, II

\* SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Training hints

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

Department issuing SDS:

UmEnA GmbH  
<http://umena.at>  
Email: [office@umena.at](mailto:office@umena.at)

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**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)  
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  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**