

ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol

Safety Data Sheet AKE277

Issue date: 11/01/2016

Revision date: 18/06/2021

Version: 1.1

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

1.1. Product identifier

Product form	: Mixture
Physical state	: Liquid
Product name	: ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol
Product code	: AKE277
Formula	: C ₉ H ₂₁ ErO ₆
Synonyms	: ERBIUMIUM TRI(METHOXYETHOXIDE)
Chemical family	: RARE EARTH ALKOXIDE

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhalation:dust,mist) Category 4	H332
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 1B	H360
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07



GHS08

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Signal word (CLP)	: Danger
Hazardous ingredients	: 2-Methoxyethanol
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation. H360 - May damage fertility or the unborn child.
Precautionary statements (CLP)	: P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 - Ground/bond container and receiving equipment. P264 - Wash hands thoroughly after handling. P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Methoxyethanol substance listed as REACH Candidate	(CAS-No.) 109-86-4 (EC-No.) 203-713-7 (EC Index-No.) 603-011-00-4	> 75	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Repr. 1B, H360FD
Erbium methoxyethoxide	(CAS-No.) 367509-45-3	< 25	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of water/... Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects	: May damage fertility or the unborn child.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Methoxyethanol, a hydrolysis product, is known to have a chronic effect on the central nervous system.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Do not use straight streams.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.
Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions : Keep container tightly closed. Keep in a cool place. Store locked up. Protect against sunlight.
Incompatible materials : Moist air. Oxidizing agent. Water.
Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Methoxyethanol (109-86-4)		
EU	IOEL TWA [ppm]	1 ppm
Austria	MAK (OEL TWA) [ppm]	1 ppm
Austria	MAK (OEL STEL) [ppm]	4 ppm
Belgium	OEL TWA	0.3 mg/m ³
Belgium	OEL TWA [ppm]	0.1 ppm
Bulgaria	OEL TWA [ppm]	1 ppm
Cyprus	OEL TWA [ppm]	1 ppm
France	VME (OEL TWA)	3.2 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	1 ppm (restrictive limit)

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2-Methoxyethanol (109-86-4)		
Germany	AGW (OEL TWA) [1]	3.2 mg/m ³ (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed)
Germany	AGW (OEL TWA) [2]	1 ppm (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed)
Germany	BLV	15 mg/g (Medium: urine - Time: end of shift - Parameter: Methoxyacetic acid (measured as mg/g Creatinine))
Gibraltar	OEL TWA [ppm]	1 ppm
Greece	OEL TWA [ppm]	1 ppm
Italy - Portugal - USA ACGIH	ACGIH OEL TWA [ppm]	0.1 ppm
Italy	OEL TWA [ppm]	0.5 ppm
Latvia	OEL TWA [ppm]	1 ppm
USA IDLH	IDLH [ppm]	200 ppm
USA NIOSH	NIOSH REL TWA	0.3 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	0.1 ppm
USA OSHA	OSHA PEL TWA [1]	80 mg/m ³
USA OSHA	OSHA PEL TWA [2]	25 ppm
Spain	VLA-ED (OEL TWA) [1]	3 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	1 ppm (indicative limit value)
Switzerland	KZGW (OEL STEL)	25.6 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	8 ppm
Switzerland	MAK (OEL TWA) [1]	3.2 mg/m ³
Switzerland	MAK (OEL TWA) [2]	1 ppm
Netherlands	MAC-TGG (OEL TWA)	0.5 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [1]	3 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	1 ppm
United Kingdom	WEL STEL (OEL STEL)	9 mg/m ³ (calculated)
United Kingdom	WEL STEL (OEL STEL) [ppm]	3 ppm (calculated)
Czech Republic	PEL (OEL TWA)	3 mg/m ³
Denmark	OEL TWA [2]	1 ppm
Finland	HTP (OEL TWA) [1]	1.6 mg/m ³
Finland	HTP (OEL TWA) [2]	0.5 ppm
Hungary	AK (OEL TWA)	3.16 mg/m ³
Ireland	OEL TWA [2]	1 ppm
Ireland	OEL STEL [ppm]	3 ppm (calculated)
Lithuania	IPRV (OEL TWA) [ppm]	1 ppm
Lithuania	TPRV (OEL STEL)	30 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	10 ppm
Malta	OEL TWA [ppm]	1 ppm
Norway	Grenseverdi (OEL TWA) [1]	3.1 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	1 ppm
Norway	Korttidsverdi (OEL STEL)	3.1 mg/m ³
Norway	Korttidsverdi (OEL STEL) [ppm]	1 ppm
Poland	NDS (OEL TWA)	3 mg/m ³
Romania	OEL TWA	3.2 mg/m ³
Romania	OEL TWA [ppm]	1 ppm
Slovakia	NPHV (OEL TWA) [1]	16 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	5 ppm
Slovakia	NPHV (OEL C)	128 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	16 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	5 ppm
Australia	OES TWA [1]	16 mg/m ³

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2-Methoxyethanol (109-86-4)		
Australia	OES TWA [2]	5 ppm
Portugal	OEL TWA [ppm]	1 ppm (indicative limit value)
Portugal	Chemical category	skin - potential for cutaneous exposure indicative limit value

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid all unnecessary exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 392.52 g/mol
Colour	: Light pink to orange-amber.
Odour	: Mild.
Odour threshold	: No data available
Refractive index	: No additional information available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 124 – 125 °C (initial)
Flash point	: 39 °C
Auto-ignition temperature	: 288 °C (methoxyethanol)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 2.6 – 2.7
Relative density	: 1.02
% Volatiles	: > 75 %
Solubility	: Reacts with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 2.5 – 19.8 vol % (lower; upper: methoxyethanol)

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame.

10.5. Incompatible materials

Moist air. Oxidizing agent. Water.

10.6. Hazardous decomposition products

Organic acid vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed or in contact with skin. Harmful in contact with skin or if inhaled. Harmful if inhaled.

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ATE CLP (oral)	666.667 mg/kg bodyweight
ATE CLP (dermal)	1706.667 mg/kg bodyweight
ATE CLP (dust,mist)	1.5 mg/l/4h

2-Methoxyethanol (109-86-4)	
LD50 oral rat	2370 mg/kg 2460 mg/kg
LD50 dermal rabbit	1280 mg/kg
LC50 Inhalation - Rat [ppm]	1478 ppm (Exposure time: 7 h)
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1280 mg/kg bodyweight
ATE CLP (vapours)	11 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified Methoxyethanol is listed as a potential mutagen.
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Methoxyethanol can cause headaches, dizziness, drowsiness, irritation of eyes, tremor, ataxia, gastrointestinal disturbance, or weight loss.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Methoxyethanol, a hydrolysis product, is known to have a chronic effect on the central nervous system.
Reason for classification	: Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

2-Methoxyethanol (109-86-4)	
LC50 - Fish [1]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

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2-Methoxyethanol (109-86-4)

LC50 - Fish [2]

9650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2-Methoxyethanol (109-86-4)

Partition coefficient n-octanol/water (Log Pow)

-0.85

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

(109-86-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations

: Do not dispose of waste into sewer.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

Additional information

: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR)

: 1993

UN-No. (IMDG)

: 1993

UN-No. (IATA)

: 1993

UN-No. (ADN)

: 1993

UN-No. (RID)

: 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR)

: FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IMDG)

: FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IATA)

: Flammable liquid, n.o.s.

Proper Shipping Name (ADN)

: FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (RID)

: FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol), 3, III, (D/E)

Transport document description (IMDG)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol), 3, III

Transport document description (IATA)

: UN 1993 Flammable liquid, n.o.s. (ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol), 3, III

Transport document description (ADN)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol), 3, III

Transport document description (RID)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (ERBIUM METHOXYETHOXIDE, 15-16% in methoxyethanol), 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)

: 3

Danger labels (ADR)

: 3

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IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

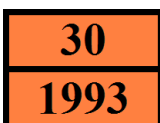
Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640E

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Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR) : D/E

- Transport by sea

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

- Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601, 640E
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640E
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001

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Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: 2-Methoxyethanol (EC 203-713-7, CAS 109-86-4)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no REACH Annex XIV substances

% Volatiles : > 75 %

15.1.2. National regulations

Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : 2-Methoxyethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : 2-Methoxyethanol is listed

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H302+H312+H332;H319;H360>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.

SDS EU (REACH Annex II) - Custom

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