

Safety Data Sheet

MS-260LM Glass Cleaner



miller-stephenson

Version: 1

Version date: 22/05/2023

Language: EN

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : MS-260LM Glass Cleaner.
 Article No (user) : MS-260LM.

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

Relevant identified uses : Industrial use.
 Uses advised against : No data available.

1.3. Details of the supplier of the safety data sheet

Supplier : **Name:** Miller-Stephenson Chemical
Street: 55 Backus Ave
Postal code/City: 06810 Danbury, CT
Country: USA
Telephone: (203) 743-4447
Website: Miller-stephenson.com
E-mail: No data available



1.4. Emergency Telephone Number

United Kingdom:

In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Hazards identification: This mixture is not classified as dangerous.

2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Labelling

Hazard pictograms

Signal word

2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
2-butoxyethanol [1]			
CAS N°	111-76-2	1.0% ≤ C ≤ 5.0%	H302 Acute Tox. 4 ORAL
EC N°	203-905-0		H312 Acute Tox. 4 DERMAL
IDX N°	603-014-00-0		H315 Skin Irrit. 2 H319 Eye Irrit. 2 H332 Acute Tox. 4 INHALATION
ethanol			
CAS N°	64-17-5	1.0% ≤ C ≤ 5.0%	H225 Flam. Liq. 2
EC N°	200-578-6		
IDX N°	603-002-00-5		
2-(2-butoxyethoxy)ethanol			
CAS N°	112-34-5	1.0% ≤ C ≤ 5.0%	H319 Eye Irrit. 2
EC N°	203-961-6		
IDX N°	603-096-00-8		

[1] Substance for which maximum workplace exposure limits are available.

Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice.

Following inhalation:

Remove victim to fresh air. Get medical attention if symptoms develop or persist.

Following skin contact:

Take off immediately all contaminated clothing. Wash off with soap and water. If skin irritation occurs: Get medical advice/attention.

Following eye contact:

Rinse immediately with water, holding the eyelids open to be sure the material is washed out. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Following ingestion:

IF SWALLOWED: Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

Self-protection of the first aider:

No special measures are necessary.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Notes for the doctor:

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media for surrounding area.

Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

This product is combustible and heating may generate vapors which may form explosive vapor/air mixtures.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment.

Use appropriate respiratory protection.

: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area).

6.2. Environmental precautions

Prevent material from entering sewers, waterways, or low areas. Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

Additional information

Not available

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****PROTECTIVE MEASURES:**

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Keep away from heat, flame or other sources of ignition. No smoking.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Work in well ventilated zones or use proper respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in a cool, well-ventilated, dry place out of direct sunlight.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits:**

Substance	Value	Unit	Type
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 (GB)	15	ppm	Exposure limit (15 minutes)
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 (GB)	101.2	mg/m ³	Exposure limit (15 minutes)
2-butoxyethanol CAS: 111-76-2 (GB)	50	ppm	Exposure limit (15 minutes)
2-butoxyethanol CAS: 111-76-2 (GB)	246	mg/m ³	Exposure limit (15 minutes)
2-butoxyethanol CAS: 111-76-2 (GB)	25	ppm	Exposure limit (8 hours)
2-butoxyethanol CAS: 111-76-2 (GB)	123	mg/m ³	Exposure limit (8 hours)
2-butoxyethanol CAS: 111-76-2 (GB)	25	ppm	Exposure limit (8 hours)
2-butoxyethanol CAS: 111-76-2 (GB)	123	mg/m ³	Exposure limit (8 hours)

2-(2-butoxyethoxy)ethanol CAS: 112-34-5 (GB)	10	ppm	Exposure limit (8 hours)
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 (GB)	67.5	mg/m ³	Exposure limit (8 hours)
2-butoxyethanol CAS: 111-76-2 (GB)	50	ppm	Exposure limit (15 minutes)
2-butoxyethanol CAS: 111-76-2 (GB)	246	mg/m ³	Exposure limit (15 minutes)

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2. Exposure controls**Appropriate engineering controls:**

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment:**Eye/face protection**

: **Suitable eye protection:**
Wear chemical safety glasses or goggles to prevent eye contact.

Skin protection

: **Hand protection:**
Suitable gloves type:
Appropriate chemical resistant gloves are recommended for operations which may result in prolonged/repeated skin contact.

Body protection:**Suitable protective clothing:**

Lab coat.

Respiratory protection

: **Respiratory protection necessary at:**
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus:

Wear respiratory protection.

Remark:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits as specified by the manufacturer. Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls:

No special measures are necessary.

Consumer exposure controls:

Not available

Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Colorless To Pale Yellow.
Odour	: Not Available
pH	: 7
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: 100°C
Flash point	: 62°C
Evaporation rate	: Not Available
Flammability	: Not available
Upper/lower flammability or explosive limits	: Not available

Vapour pressure	:	Not Available
Vapour density	:	Not Available
Relative density	:	Not Available
Solubility(ies)	:	Not Available
Partition coefficient n-octanol/water (log value)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Kinematic viscosity	:	Not available
Solubility in other Solvents	:	Not available
Particle characteristics	:	Not available

9.2. Other safety information

Information concerning to the classes of physical hazards

Not available

Other security characteristics

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat, sparks, flames and other sources of ignition.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute oral toxicity:

The product is not classified.

Data for mixture:

Species	:	Not available
Sex	:	Not available
Guideline	:	Not available

Subendpoint	Operator	Value	Unit
ATEmix		71,295.50	mg/kg

Conclusion : Not available

Substances:

Not available

Acute dermal toxicity:

The product is not classified.

Data for mixture:

Species	:	Not available
Sex	:	Not available
Guideline	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available

Subendpoint	Operator	Value	Unit
ATEmix		60,000	mg/kg

Conclusion : Not available

Substances:

Not available

Acute inhalation toxicity:

The product is not classified.

Data for mixture:

Species : Not available
 Sex : Not available
 Guideline : Not available
 Route of administration : inhalation: vapour
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Results/Sex	Operator	Value	Unit
ATEmix (vapor)			2000	mg/L

Conclusion : Not available
 Species : Not available
 Sex : Not available
 Guideline : Not available
 Route of administration : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Results/Sex	Operator	Value	Unit
ATEmix (dust ,mist, fumes)			500	mg/L

Conclusion : Not available

Substances:

Not available

Skin corrosion/irritation:

The product is not classified.

Data for mixture:

Not available

Substances:

- **2-butoxyethanol (CAS: 111-76-2):**

Test type : in vivo
 Species : Rabbit
 Sex : Not available
 Guideline : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available
 Conclusion : irritating

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

Test type : in vivo
 Species : Rabbit
 Sex : Not available
 Guideline : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available
 Conclusion : Not irritant

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

Test type : in vivo
 Species : Rabbit
 Sex : Not available
 Guideline : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available
 Conclusion : Not irritant

Serious eye damage/irritation:

The product is not classified.

Data for mixture:

Not available

Substances:• **2-butoxyethanol (CAS: 111-76-2):**

Test type	:	Not available
Species	:	Rabbit
Sex	:	Not available
Guideline	:	Not available
Type of method	:	Not available
Concentration	:	Not available

Subendpoint	Basis	Time Point	Reversibility
		24 - 72 hours	

Conclusion : irritating

• **ethanol (CAS: 64-17-5):**

Test type	:	Not available
Species	:	Rabbit
Sex	:	Not available
Guideline	:	Not available
Type of method	:	Not available
Concentration	:	Not available

Subendpoint	Basis	Time Point	Reversibility
		1 - 24 hours	

Conclusion : not irritating

• **2-(2-butoxyethoxy)ethanol (CAS: 112-34-5):**

Test type	:	Not available
Species	:	Rabbit
Sex	:	Not available
Guideline	:	Not available
Type of method	:	Not available
Concentration	:	Not available

Subendpoint	Basis	Time Point	Reversibility
		24 - 72 hours	

Conclusion : Highly irritating

Skin sensitisation:

The product is not classified.

Data for mixture:

Not available

Substances:• **2-butoxyethanol (CAS: 111-76-2):**

Species	:	Guinea pig (in vivo)
Sex	:	Not available
Guideline	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Concentration	:	Not available

Subendpoint	Value	Unit

Conclusion : Non sensitising

• **ethanol (CAS: 64-17-5):**

Species	:	Guinea pig (in vivo)
Sex	:	Not available
Guideline	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Concentration	:	Not available

Subendpoint	Value	Unit

Conclusion : Non sensitising

• **2-(2-butoxyethoxy)ethanol (CAS: 112-34-5):**

Species	:	Guinea pig (in vivo)
Sex	:	Not available
Guideline	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Concentration	:	Not available
Conclusion	:	Non sensitising

Specific target organ toxicity (repeated exposure):

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Specific target organ toxicity (single exposure):

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Carcinogenicity:

The product is not classified.

Data for mixture:

Test type	:	Not available
Species	:	Not available
Sex	:	Not available
Guideline	:	Not available
Route of administration	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Conclusion	:	No data available

Substances:

Not available

Reproductive toxicity:

The product is not classified.

Data for mixture:

Test type	:	Not available
Species	:	Not available
Sex	:	Not available
Guideline	:	Not available
Route of administration	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Concentration	:	Not available
Conclusion	:	No data available

Substances:

Not available

Germ cell mutagenicity:

The product is not classified.

Data for mixture:

Test type	:	Not available
Species	:	Not available
Sex	:	Not available
Guideline	:	Not available
Type of method	:	Not available
Route of administration	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available
Concentration	:	Not available
Conclusion	:	No data available

Substances:

Not available

Sensitisation to the respiratory tract:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Additional information:

Not available

11.2. Information on other hazards**Endocrine disrupting properties:**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

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

Data for mixture:

Not available

Substances:**Acute aquatic toxicity:****• 2-butoxyethanol (CAS: 111-76-2):**

Animals/category : Fish
 Species : Oncorhynchus mykiss (rainbow trout)
 Test duration : 96
 Unit : h
 Guideline : Experimental result, Key study

Subendpoint	Value	Unit
LC50:	1,474	mg/L

Remarks : Not available
 Animals/category : Crustacea
 Species : Daphnia magna (Big water flea).
 Test duration : 48
 Unit : h
 Guideline : Experimental result, Key study

Subendpoint	Value	Unit
EC50	1,550	mg/L

Remarks : Not available
• ethanol (CAS: 64-17-5):
 Animals/category : Fish
 Species : Pimephales promelas (fathead minnow)
 Test duration : 96
 Unit : h
 Guideline : Experimental result, Key study

Subendpoint	Value	Unit
LC50:	15.3	g/L

Remarks : Not available
 Animals/category : other aquatic plants/organisms
 Species : Ceriodaphnia dubia
 Test duration : 48
 Unit : h
 Guideline : Experimental result, Key study

Subendpoint	Value	Unit
LC50:	5,012	mg/L

Remarks : Not available
• 2-(2-butoxyethoxy)ethanol (CAS: 112-34-5):
 Animals/category : Fish
 Species : Pimephales promelas (fathead minnow)
 Test duration : 96
 Unit : h
 Guideline : Experimental result, Supporting study

Subendpoint	Value	Unit
LC50:	2,400	mg/L

Remarks : Not available
 Animals/category : Crustacea
 Species : Daphnia magna (Big water flea).
 Test duration : 48
 Unit : h
 Guideline : QSAR, Supporting study

Subendpoint	Value	Unit
LC50:	+/- 1,743	mg/L

Remarks : Not available

Chronic aquatic toxicity:

• 2-butoxyethanol (CAS: 111-76-2):

Animals/category : Fish
 Species : Danio rerio
 Guideline : Experimental result, Key study
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Value	Unit
NOAEL	> 100	mg/L

Remarks : Not available
 Animals/category : Crustacea
 Species : Daphnia magna (Big water flea).
 Guideline : Experimental result, Key study
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Value	Unit
EC50	297	mg/L
EC10	134	mg/L

Remarks : Not available

• ethanol (CAS: 64-17-5):

Animals/category : Fish
 Species : Oryzias latipes (Ricefish)
 Guideline : Supporting study
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Value	Unit
NOAEL	7,900	mg/L

Remarks : Not available
 Animals/category : Crustacea
 Species : Daphnia magna (Big water flea).
 Guideline : Experimental result, Key study
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Value	Unit
NOAEL	9.6	mg/L
LC50:	454	mg/L

Remarks : Not available

12.2. Persistence and degradability

The product has not been tested.

Data for mixture:

Not available

Substances:**Biodegradation:**• **2-butoxyethanol (CAS: 111-76-2):**

Inoculum	:	Not available
Guideline	:	Experimental result, Key study
Test duration	:	Not available
Unit	:	Not available

Parameter	Degradation rate	Unit
BOD (% of COD).	90.4 (Detected in water)	%

Remarks : Not available

• **ethanol (CAS: 64-17-5):**

Inoculum	:	Not available
Guideline	:	Experimental result, Key study
Test duration	:	Not available
Unit	:	Not available

Parameter	Degradation rate	Unit
BOD (% of COD).	95 (Detected in water)	%

Remarks : Not available

• **2-(2-butoxyethoxy)ethanol (CAS: 112-34-5):**

Inoculum	:	Not available
Guideline	:	Experimental result, Key study
Test duration	:	28
Unit	:	days

Parameter	Degradation rate	Unit
BOD (% of COD).	85 (Detected in water)	%

Remarks : Not available

12.3. Bioaccumulative potential

The product has not been tested.

Data for mixture:

Not available

Substances:• **ethanol (CAS: 64-17-5):**

Species	:	Cyprinus carpio (Common carp)
Guideline	:	Supporting Study
Log kow	:	Not available

Bioconcentration factor (BCF)
4.5 Aquatic sediment

Remarks : Not available

12.4. Mobility in soil

The product has not been tested.

Data for mixture:

Not available

Substances:• **2-butoxyethanol (CAS: 111-76-2):**

Distribution	:	Not available
Transport type	:	Not available
Guideline	:	Not available
Superficial tension	:	Not available
Remarks	:	No data available

• **ethanol (CAS: 64-17-5):**

Distribution	:	Not available
Transport type	:	Not available
Guideline	:	Not available
Superficial tension	:	Not available
Remarks	:	No data available

• **2-(2-butoxyethoxy)ethanol (CAS: 112-34-5):**

Distribution	:	Not available
Transport type	:	Not available
Guideline	:	Not available
Superficial tension	:	Not available

Parameter	Value

Remarks : No data available

12.5. Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

12.6. Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7. Other adverse effects

Not available

Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/Packaging disposal:

Waste codes/waste designations according to EWC/AVV:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options:

Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

Appropriate disposal/Package:

Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

Additional information

Not available

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

The product is not hazardous according to the applicable transport regulations.

14.2. UN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

14.6. Special precautions for user

Not regulated.

14.7. Bulk shipping according to IMO instruments

Not regulated.

Additional information

Not available

SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

EU legislation:

CLP: Harmonised classification and labelling of hazardous substances (Annex VI, table 3.1)_ATP 15:

Substance	CAS	EC
2-butoxyethanol	111-76-2	203-905-0

REACH: Annex XVII (Restrictions):

Substance	CAS	EC
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Additional information

Not available

SECTION 16: OTHER INFORMATION**Indication of changes**

Not applicable (first edition of the MSDS).

Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Complies with ATP 18, Regulation (EU) n°2022/692.

Relevant R-, H- and EUH-phrases (Number and full text)

H225	Flam. Liq. 2	Highly flammable liquid and vapour.
H302	Acute Tox. 4 ORAL	Harmful if swallowed
H312	Acute Tox. 4 DERMAL	Harmful in contact with skin.
H315	Skin Irrit. 2	Causes skin irritation.
H319	Eye Irrit. 2	Causes serious eye irritation
H332	Acute Tox. 4 INHALATION	Harmful if inhaled.

Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

Additional information

Creation date: 22/05/2023

Version date: 22/05/2023

Printing date: 23/05/2023

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.