

SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006



Product name: **2115 Epoxy Thinner**

Creation date: **01.09.2023**, Revision: **15.12.2023**, version: **3.0**

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

1.1 Product identifier

Product name

2115 Epoxy Thinner

UFI:

J9GX-D26E-P60E-6QJT



<https://my.chemius.net/p/F5HDTD/en/pd/en>

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

Relevant identified uses

No information.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

112

Supplier

112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flam. Liq. 2; H225 Highly flammable liquid and vapour.
Acute Tox. 4; H302 Harmful if swallowed.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.
Repr. 2; H361 Suspected of damaging fertility or the unborn child.
STOT SE 2; H371 May cause damage to organs.
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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



Signal word: DANGER

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

Acetone
Toluene
methyl acetate
methanol

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	40-50	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/
Toluene	108-88-3 203-625-9 601-021-00-3 01-2119471310-51	40-50	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361 STOT RE 2; H373	/	/
methyl acetate	79-20-9 201-185-2 607-021-00-X	15-20	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/
methanol	67-56-1 200-659-6 603-001-00-X 01-2119433307-44	5-10	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370	/	/
	111-76-2		Acute Tox. 4; H302 Acute Tox. 4; H312		

2-butoxyethanol	203-905-0 603-014-00-0 01-2119475108-36	0.1-1	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332	/	/
Xylene (mixture of isomers)	- 905-562-9 - 01-2119555267-33	0.1-1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373	/	/
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	0.1-1	Flam. Liq. 3; H226 STOT SE 3; H336	/	/
METHYLETHYL KETONE	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	0.1-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness.

Following skin contact

Itching, redness, pain.

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia. Harmful to health.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. After the product has been ingested vomiting can cause aspiration into the lungs. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Butan-2-one (methyl ethyl ketone) (78-93-3)	600	200	899	300	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift 70 µmol butan-2-one/L in urine - Post shift
2-						240 mmol butoxyacetic acid/mol creatinine in urine - Post

Butoxyethanol (111-76-2)	123	25	246	50	Sk, BMGV	shift 240 mmol butoxyacetic acid/mol creatinine in urine - Post shift
1-Methoxypropyl acetate (108-65-6)	274	50	548	100	Sk	/
Acetone (67-64-1)	1210	500	3620	1500	/	/
Methanol (67-56-1)	266	200	333	250	Sk	/
Methyl acetate (79-20-9)	616	200	770	250	/	/
Toluene (108-88-3)	191	50	384	100	Sk	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
Acetone	Worker	inhalation	long term systemic effects	/	1210 mg/m³
Acetone	Worker	inhalation	short term local effects	/	2420 mg/m³
Acetone	Worker	dermal	long term systemic effects	/	186 mg/kg bw/day
Acetone	Consumer	inhalation	long term systemic effects	/	200 mg/m³

Acetone	Consumer	dermal	long term systemic effects	/	62 mg/kg bw/day
Acetone	Consumer	oral	long term systemic effects	/	62 mg/kg bw/day
Xylene (mixture of isomers)	Worker	inhalation	long term systemic effects	/	221 mg/m ³
Xylene (mixture of isomers)	Worker	inhalation	short term systemic effects	/	442 mg/m ³
Xylene (mixture of isomers)	Worker	inhalation	long term local effects	/	221 mg/m ³
Xylene (mixture of isomers)	Worker	inhalation	short term local effects	/	442 mg/m ³
Xylene (mixture of isomers)	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
Xylene (mixture of isomers)	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
Xylene (mixture of isomers)	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
Xylene (mixture of isomers)	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
Xylene (mixture of isomers)	Consumer	inhalation	short term local effects	/	260 mg/m ³
Xylene (mixture of isomers)	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
Xylene (mixture of isomers)	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
Toluene	Worker	inhalation	long term systemic effects	/	192 mg/m ³
Toluene	Worker	inhalation	short term systemic	/	384 mg/m ³

			effects		
Toluene	Worker	inhalation	long term local effects	/	192 mg/m ³
Toluene	Worker	inhalation	short term local effects	/	384 mg/m ³
Toluene	Worker	dermal	long term systemic effects	/	384 mg/kg bw/day
Toluene	Consumer	inhalation	long term systemic effects	/	56.5 mg/m ³
Toluene	Consumer	inhalation	short term systemic effects	/	226 mg/m ³
Toluene	Consumer	inhalation	long term local effects	/	56.5 mg/m ³
Toluene	Consumer	inhalation	short term local effects	/	226 mg/m ³
Toluene	Consumer	dermal	long term systemic effects	/	226 mg/kg bw/day
Toluene	Consumer	oral	long term systemic effects	/	8.13 mg/kg bw/day
2-butoxyethanol	Worker	inhalation	long term systemic effects	/	98 mg/m ³
2-butoxyethanol	Worker	inhalation	short term systemic effects	/	1091 mg/m ³
2-butoxyethanol	Worker	inhalation	short term local effects	/	246 mg/m ³
2-butoxyethanol	Worker	dermal	long term systemic effects	/	125 mg/kg bw/day
2-butoxyethanol	Worker	dermal	short term systemic effects	/	89 mg/kg bw/day
			long term		

2-butoxyethanol	Consumer	inhalation	systemic effects	/	59 mg/m ³
2-butoxyethanol	Consumer	inhalation	short term systemic effects	/	426 mg/m ³
2-butoxyethanol	Consumer	inhalation	short term local effects	/	147 mg/m ³
2-butoxyethanol	Consumer	dermal	long term systemic effects	/	75 mg/kg bw/day
2-butoxyethanol	Consumer	dermal	short term systemic effects	/	89 mg/kg bw/day
2-butoxyethanol	Consumer	oral	long term systemic effects	/	6.3 mg/kg bw/day
2-butoxyethanol	Consumer	oral	short term systemic effects	/	26.7 mg/kg bw/day
methanol	Worker	dermal	long term systemic effects	/	20 mg/kg bw/day
methanol	Worker	inhalation	long term systemic effects	/	130 mg/m ³
methanol	Worker	inhalation	short term systemic effects	/	130 mg/m ³
methanol	Consumer	dermal	short term systemic effects	/	4 mg/kg bw/day
methanol	Consumer	oral	long term systemic effects	/	4 mg/kg bw/day
methanol	Consumer	inhalation	long term systemic effects	/	26 mg/m ³
methanol	Consumer	inhalation	short term systemic effects	/	26 mg/m ³
			short term		

methanol	Worker	dermal	systemic effects	/	20 mg/kg bw/day
methanol	Worker	inhalation	short term local effects	/	130 mg/m³
methanol	Worker	inhalation	long term local effects	/	130 mg/m³
methanol	Consumer	oral	long term systemic effects	/	4 mg/kg bw/day
methanol	Consumer	dermal	long term systemic effects	/	4 mg/kg bw/day
methanol	Consumer	inhalation	short term local effects	/	26 mg/m³
methanol	Consumer	inhalation	long term local effects	/	26 mg/m³
METHYLETHYL KETONE	Worker	inhalation	long term systemic effects	/	600 mg/m³
METHYLETHYL KETONE	Worker	dermal	long term systemic effects	/	1161 mg/kg bw/day
METHYLETHYL KETONE	Consumer	inhalation	long term systemic effects	/	106 mg/m³
METHYLETHYL KETONE	Consumer	dermal	long term systemic effects	/	412 mg/kg bw/day
METHYLETHYL KETONE	Consumer	oral	long term systemic effects	/	31 mg/kg bw/day
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Worker	inhalation	long term systemic effects	/	275 mg/m³
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY	Worker	inhalation	short term local effects	/	550 mg/m³

ETHYL ACETATE					
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Worker	dermal	long term systemic effects	/	796 mg/kg bw/day
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Consumer	inhalation	long term systemic effects	/	33 mg/m³
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Consumer	inhalation	long term local effects	/	33 mg/m³
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Consumer	dermal	long term systemic effects	/	320 mg/kg bw/day
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Consumer	oral	long term systemic effects	/	36 mg/kg bw/day
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	Consumer	oral	short term systemic effects	/	500 mg/kg bw/day
methyl acetate	Worker	inhalation	long term systemic effects	/	610 mg/m³
methyl acetate	Worker	inhalation	long term local effects	/	305 mg/m³
methyl acetate	Worker	dermal	long term systemic effects	/	88 mg/kg bw/day
methyl acetate	Consumer	inhalation	long term systemic	/	131 mg/m³

			effects		
methyl acetate	Consumer	inhalation	long term local effects	/	152 mg/m ³
methyl acetate	Consumer	dermal	long term systemic effects	/	44 mg/kg bw/day
methyl acetate	Consumer	oral	long term systemic effects	/	44 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
Acetone	fresh water	/	10.6 mg/L
Acetone	water, intermittent release	/	21 mg/L
Acetone	marine water	/	1.06 mg/L
Acetone	water treatment plant	/	100 mg/L
Acetone	fresh water sediment	dry weight	30.4 mg/kg
Acetone	marine water sediment	dry weight	3.04 mg/kg
Acetone	soil	dry weight	29.5 mg/kg
Xylene (mixture of isomers)	fresh water	/	0.327 mg/L
Xylene (mixture of isomers)	water, intermittent release	/	0.327 mg/L
Xylene (mixture of isomers)	marine water	/	0.327 mg/L
Xylene (mixture of isomers)	water treatment plant	/	6.58 mg/L
Xylene (mixture of isomers)	fresh water sediment	dry weight	12.46 mg/kg
Xylene (mixture of isomers)	marine water sediment	dry weight	12.46 mg/kg
Xylene (mixture of isomers)	soil	dry weight	2.31 mg/kg

Toluene	fresh water	/	0.68 mg/L
Toluene	water, intermittent release	/	0.68 mg/L
Toluene	marine water	/	0.68 mg/L
Toluene	water treatment plant	/	13.61 mg/L
Toluene	fresh water sediment	dry weight	16.39 mg/kg
Toluene	marine water sediment	dry weight	16.39 mg/kg
Toluene	soil	dry weight	2.89 mg/kg
2-butoxyethanol	fresh water	/	8.8 mg/L
2-butoxyethanol	water, intermittent release	/	26.4 mg/L
2-butoxyethanol	marine water	/	0.88 mg/L
2-butoxyethanol	water treatment plant	/	463 mg/L
2-butoxyethanol	fresh water sediment	dry weight	34.6 mg/kg
2-butoxyethanol	marine water sediment	dry weight	3.46 mg/kg
2-butoxyethanol	soil	dry weight	2.33 mg/kg
2-butoxyethanol	secondary poisoning	food	0.02 g/kg
methanol	fresh water	/	20.8 mg/L
methanol	marine water	/	2.08 mg/L
methanol	water treatment plant	/	100 mg/L
methanol	fresh water sediment	dry weight	77 mg/kg
methanol	marine water sediment	dry weight	7.7 mg/kg
methanol	soil	dry weight	100 mg/kg
METHYLETHYL KETONE	fresh water	/	55.8 mg/L
METHYLETHYL KETONE	water, intermittent release	/	55.8 mg/L

METHYLETHYL KETONE	marine water	/	55.8 mg/L
METHYLETHYL KETONE	water treatment plant	/	709 mg/L
METHYLETHYL KETONE	fresh water sediment	dry weight	284.74 mg/kg
METHYLETHYL KETONE	marine water sediment	dry weight	284.7 mg/kg
METHYLETHYL KETONE	soil	dry weight	22.5 mg/kg
METHYLETHYL KETONE	secondary poisoning	food	1000 mg/kg
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	fresh water	/	0.635 mg/L
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	water, intermittent release	/	6.35 mg/L
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	marine water	/	0.064 mg/L
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	water treatment plant	/	100 mg/L
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	fresh water sediment	dry weight	3.29 mg/kg
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	marine water sediment	dry weight	0.329 mg/kg
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE	soil	dry weight	0.29 mg/kg
methyl acetate	fresh water	/	0.12 mg/L
methyl acetate	water, intermittent release	/	1.2 mg/L
methyl acetate	marine water	/	0.012 mg/L

methyl acetate	water treatment plant	/	600 mg/L
methyl acetate	fresh water sediment	dry weight	0.128 mg/kg
methyl acetate	marine water sediment	dry weight	0.013 mg/kg
methyl acetate	soil	dry weight	0.042 mg/kg
methyl acetate	secondary poisoning	food	20.4 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. 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. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). At high risk of skin exposure chemical suits (EN 13034:2005+A1:2009) and boots may be required (EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

colourless

Odour

characteristic

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	21 °C
Auto-ignition	No information.

temperature	
Decomposition temperature	No information.
pH	substance/mixture is non-soluble (in water) (Does not apply)
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 0.84 g/cm³
Relative vapour density	No information.
Particle characteristics	No information.

9.2 Other information

Solids content	0 % 0 vol %
Weight organic solvents	840 g/l
Explosive properties	No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
Xylene (mixture of isomers)	oral	LD ₅₀	mouse	/	5627 mg/kg	/	/
Xylene (mixture of isomers)	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
Xylene (mixture of isomers)	inhalation	LC ₅₀	rat	/	6700 ppm	/	/
Toluene	oral	LD ₅₀	rat	/	5580 mg/kg	/	/
Toluene	dermal	LD ₅₀	rabbit	/	12124 mg/kg	/	/
Toluene	inhalation	LC ₅₀	rat	4 h	28.1 mg/l	/	vapour

2-butoxyethanol	oral	LD ₅₀	rat	/	560 mg/kg	/	/
2-butoxyethanol	dermal	LD ₅₀	rabbit	/	1800 mg/kg	/	/
2-butoxyethanol	oral	LD ₅₀	mouse	/	1200 mg/kg	/	/
2-butoxyethanol	inhalation	LC ₅₀	rat	4 h	2400 mg/l	/	dust/aerosol
methanol	dermal	LD ₅₀	rabbit	/	ca. 17100 mg/kg	/	/
METHYLETHYL KETONE	oral	LD ₅₀	rat	/	2737 mg/kg	/	/
METHYLETHYL KETONE	dermal	LD ₅₀	rabbit	/	6480 mg/kg	/	/
METHYLETHYL KETONE	inhalation	LC ₅₀	rat	4 h	23.5 mg/l	/	vapour
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXYETHYL ACETATE	oral	LD ₅₀	rat	/	8530 mg/kg	/	/
1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXYETHYL ACETATE	inhalation	LC ₅₀	rat	4 h	35.7 mg/l	/	vapour
1-METHYL-2-METHOXY							

ETHYL ACETATE DI 1- METHYL- METHOXY ETHYL ACETATE	dermal	LD₅₀	rat	/	5000 mg/kg	/	/
methyl acetate	oral	LD₅₀	rabbit	/	> 3705 mg/kg	/	/

Additional information

Harmful if swallowed.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Toluene	/	/	Irritating.	/	/
METHYLETHYL KETONE	/	/	Irritating.	/	/

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Toluene	/	/	/	Conjunctivitis and irritation of cornea.	/	/
METHYLETH YL KETONE	/	/	/	Irritating.	/	/
1-METHYL-2- METHOXYET HYL ACETATE DI 1-METHYL- METHOXY ETHYL ACETATE	/	/	/	May cause irritation.	/	/

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
Toluene	inhalation	/	/	/	/	/	/	Irritates respiratory system.	/	/

Additional information

May cause drowsiness or dizziness. Causes damage to organs. May cause damage to organs.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
Acetone	dermal	-	/	/	/	/	/	Prolonged exposure causes skin irritation.	/	/

Additional information

May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard

No information.

Additional information

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
Xylene (mixture of isomers)	LC ₅₀	> 1.3 mg/L	/	fish	/	/	/
Toluene	LC ₅₀	7.63 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
Toluene	EC ₅₀	6 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
methanol	LC ₅₀	15400 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	EPA-660 / 3-75-009 ① Translation required (216615)	/
methanol	EC ₅₀	22200 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
methanol	EC ₅₀	ca. 22000 mg/L	96 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
METHYLETHYL KETONE	EC ₅₀	5091 mg/L	48 h	crustacea	/	/	/

METHYLE THYL KETONE	LC ₅₀	3220 mg/L	96 h	fish	/	/	/
METHYLE THYL KETONE	EC ₅₀	1150 mg/L	/	bacteria	/	/	/
1-METHYL- 2- METHOXY ETHYL ACETATE DI 1- METHYL- METHOXY ETHYL ACETATE	LC ₅₀	100 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
1-METHYL- 2- METHOXY ETHYL ACETATE DI 1- METHYL- METHOXY ETHYL ACETATE	EC ₅₀	500 mg/L	48 h	crustacea	/	/	/

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
Acetone	-	/	/	readily biodegradable	/	/
Xylene (mixture of isomers)	BOD	57 - 80 g O ₂ /g	/	/	/	/
methanol	BOD	95 %	20 days	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
Acetone	Octanol- water	-0.23	/	/	/	/
Xylene (mixture of isomers)	log Kow	3.12 - 3.2	/	/	/	/
methanol	Octanol- water (log Pow)	-0.77	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
Acetone	BCF	/	3	/	/	/	/
Xylene (mixture of isomers)	BCF	/	25.9	/	/	/	/
1-METHYL- 2- METHOXY ETHYL ACETATE DI 1- METHYL- METHOXY ETHYL ACETATE	organism	/	0.43	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
Xylene (mixture of isomers)	Soil	log KOC	2.73	/	/	/

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.

For components

Xylene (mixture of isomers)

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Bioaccumulation is not expected.

Toluene

Chemical Oxygen Demand (COD) 0,7 g/g

METHYLETHYL KETONE

Very volatile, partially soluble in water, absorption into the soil is likely to be readily biodegradable, is not bioaccumulative.

1-METHYL-2-METHOXYETHYL ACETATE DI 1-METHYL-METHOXY ETHYL ACETATE

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1263	UN 1263	UN 1263	UN 1263
14.2 UN proper shipping name			
PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)			
3	3	3	3

			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Special provisions 163, 367, 650 Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (D/E) Classification code F1	Limited quantities 5 L EmS F-E, <u>S-E</u> Flash point 21 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y344 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 10 L Packing Instructions (Pkg Inst) 355 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 366 Special provisions A3, A72, A192 ERG code 3L	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(a) 850 g/l. VOC Content: 840 g/l

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

Indication of changes

7.2 Conditions for safe storage, including any incompatibilities

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario
 GHS - Globally Harmonized System
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 IMSBC - International Maritime Solid Bulk Cargoes
 IT - Information Technology
 IUCLID - International Uniform Chemical Information Database
 IUPAC - International Union for Pure Applied Chemistry
 JRC - Joint Research Centre
 Kow - octanol-water partition coefficient
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 LE - Legal Entity
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
 LR - Lead Registrant
 M/I - Manufacturer / Importer
 MS - Member States
 MSDS - Material Safety Data Sheet
 OC - Operational Conditions
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OJ - Official Journal
 OR - Only Representative
 OSHA - European Agency for Safety and Health at work
 PBT - Persistent, Bioaccumulative and Toxic substance
 PEC - Predicted Effect Concentration
 PNEC(s) - Predicted No Effect Concentration(s)
 PPE - Personal Protection Equipment
 (Q)SAR - Qualitative Structure Activity Relationship
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 RIP - REACH Implementation Project
 RMM - Risk Management Measure
 SCBA - Self-Contained Breathing Apparatus
 SDS - Safety data sheet
 SIEF - Substance Information Exchange Forum
 SME - Small and Medium sized Enterprises
 STOT - Specific Target Organ Toxicity
 (STOT) RE - Repeated Exposure
 (STOT) SE - Single Exposure
 SVHC - Substances of Very High Concern
 UN - United Nations
 vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361 Suspected of damaging fertility or the unborn child.
 H370 Causes damage to organs.
 H373 May cause damage to organs through prolonged or repeated exposure.
 EUH066 Repeated exposure may cause skin dryness or cracking.

