

Vinyl Repair Glue

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/25/2023 Revision date: 9/25/2023 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Vinyl Repair Glue
Trade name : Glutex #13N
UFI Number 2T16-U10V-7TKD-C0PD

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 : To repair all kinds of inflatable boats, air bed, swimming pool, tents, toys, etc.

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Supplier

Guang Zhou Shin Dorn Plastics Toy Co., Ltd.
23 Huagang Avenue, Xiuquan Street, Huadu District, Guangzhou, China
510812
T +86-20-86172272
F +86-20-86171423
info@shindorn.com

1.4. Emergency telephone number

Emergency number : +86-20-86172272

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, H336
Narcosis

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Other hazards which do not result in classification : No information available.

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

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	EC No.	CAS No.	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Registration No.
Ethyl acetate	205-500-4	141-78-6	42	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 (EUH066)	01-2119475103-46-0074
Methyl ethyl ketone	201-159-0	78-93-3	18	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 (EUH066)	01-2119457290-43-0039
Methyl acetate	201-185-2	79-20-9	14	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 (EUH066)	01-2119459211-47-0022
Polyurethane resin	/	52270-22-1	14	Not classified	01-2119457561-38-XXXX 01-2119471849-20-XXXX 01-2119457571-37-XXXX
Acetone	200-662-2	67-64-1	12	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 (EUH066)	01-2119471330-49-0071

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If necessary seek medical advice.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Wash immediately with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person.

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

Symptoms/effects	: Causes serious eye irritation. May cause drowsiness or dizziness.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide (CO ₂). dry sand.
Unsuitable extinguishing media	: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour. In the event of thermal decomposition : Carbon oxides (CO, CO ₂). Nitrogen oxides.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate personnel to a safe area. Move containers from fire area if it can be done without personal risk. Cool down the containers exposed to heat with a water spray. Stay upwind/keep distance from source.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Ensure good ventilation of the work station.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate personnel to a safe area. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Do not eat and do not drink during use. Wash hands thoroughly after handling.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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6.3. Methods and material for containment and cleaning up

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|-------------------------|---|
| Methods for cleaning up | : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|---|
| Precautions for safe handling | : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|--------------------|--|
| Technical measures | : Ground/bond container and receiving equipment. |
| Storage conditions | : Store in a well-ventilated place. Keep cool. Keep dry. Keep container tightly closed. Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep locked up and out of the reach of children. |

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

8.1. Control parameters

Chemical Name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethyl acetate (CAS #: 141-78-6)	TWA :734 mg/m ³ TWA: 200 ppm STEL:1468 mg/m ³ STEL: 400 ppm	TWA : 734 mg/m ³ TWA : 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL:400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm
Methyl ethyl ketone (CAS #: 78-93-3)	TWA:600 mg/m ³ TWA: 200 ppm STEL: 900 mg/m ³ STEL:300 ppm	TWA:295 mg/m ³ TWA:100 ppm STEL: 590 mg/m ³ (Butanone) STEL: 200 ppm (Butanone)	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:590 mg/m ³ STEL: 885 mg/m ³	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm
Methyl acetate (CAS #:79-20-9)		TWA:610 mg/m ³ TWA:200 ppm STEL: 1220 mg/m ³ STEL: 400 ppm	TWA:615 mg/m ³ TWA:200 ppm STEL: 768 mg/m ³ STEL: 250 ppm		TWA:616 mg/m ³ TWA:200 ppm STEL: 770 mg/m ³ STEL: 250 ppm
Acetone (CAS #:67-64-1)	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1200 mg/m ³ TWA:500 ppm STEL: 4800 mg/m ³ STEL: 2000 ppm	TWA:594 mg/m ³ TWA:246 ppm STEL: 1187 mg/m ³ STEL: 492 ppm	TWA:600 mg/m ³ STEL: 1400 mg/m ³	TWA:1210 mg/m ³ TWA:500 ppm

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Chemical Name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethyl acetate (CAS #: 141-78-6)	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 700 mg/m ³	TWA: 540 mg/m ³ TWA: 150 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 500 mg/m ³ TWA: 150 ppm STEL: 1100 mg/m ³ STEL: 300 ppm	TWA: 730 mg/m ³ TWA: 200 ppm STEL: 1470 mg/m ³ STEL: 400 ppm
Methyl ethyl ketone (CAS #: 78-93-3)	TWA: 600 mg/m ³ TWA: 200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 600 mg/m ³	TWA: 145 mg/m ³ TWA: 50 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 600 mg/m ³ TWA: 200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 60 mg/m ³ TWA: 20 ppm STEL: 300 mg/m ³ STEL: 100 ppm
Methyl acetate (CAS #: 79-20-9)		TWA: 600 mg/m ³	TWA: 455 mg/m ³ TWA: 150 ppm STEL: 910 mg/m ³ STEL: 300 ppm	TWA: 450 mg/m ³ TWA: 150 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 610 mg/m ³ TWA: 200 ppm STEL: 770 mg/m ³ STEL: 250 ppm
Acetone (CAS #: 67-64-1)	TWA: 1210 mg/m ³ TWA: 500 ppm	TWA: 800 mg/m ³	TWA: 600 mg/m ³ TWA: 250 ppm STEL: 1200 mg/m ³ STEL: 500 ppm	TWA: 1210 mg/m ³ TWA: 500 ppm	TWA: 1200 mg/m ³ TWA: 500 ppm STEL: 1500 mg/m ³ STEL: 630 ppm

Chemical Name	France	Germany	Gibraltar	Greece	Hungary
Ethyl acetate (CAS #: 141-78-6)	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ (restrictive limit) STEL: 400 ppm (restrictive limit)	TWA: 730 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) TWA: 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	TWA: 200 mg/m ³ TWA: 734 ppm STEL: 400 mg/m ³ STEL: 1468 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ STEL: 1468 mg/m ³ Sensitizer
Methyl ethyl ketone (CAS #: 78-93-3)	TWA: 600 mg/m ³ (restrictive limit) TWA: 200 ppm (restrictive limit) STEL: 900 mg/m ³ (restrictive limit) STEL: 300 ppm (restrictive limit)	TWA: 600 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) TWA: 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	TWA: 600 mg/m ³ TWA: 200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 600 mg/m ³ TWA: 200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA: 600 mg/m ³ STEL: 900 mg/m ³
Methyl acetate (CAS #: 79-20-9)	TWA: 610 mg/m ³ TWA: 200 ppm STEL: 760 mg/m ³ STEL: 250 ppm	TWA: 620 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) TWA: 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)		TWA: 610 mg/m ³ TWA: 200 ppm STEL: 760 mg/m ³ STEL: 250 ppm	TWA: 310 mg/m ³ STEL: 1240 mg/m ³

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Acetone (CAS #:67-64-1)	TWA:1210 mg/m ³ (restrictive limit) TWA:500 ppm (restrictive limit) STEL:2420 mg/m ³ (restrictive limit) STEL:1000 ppm (restrictive limit)	TWA:1200 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) TWA:500 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1780 mg/m ³ STEL:3560 mg/m ³	TWA:1210 mg/m ³
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Chemical Name	Ireland	Italy	Latvia	Lithuania	Luxembourg
Ethyl acetate (CAS #: 141-78-6)	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA:734 mg/m ³ TWA:200 ppm STEL:1468 mg/m ³ STEL: 400 ppm	TWA:200 mg/m ³ TWA:54 ppm	TWA:500 mg/m ³ TWA:150 ppm STEL:1100 mg/m ³ STEL:300 ppm	TWA:734 mg/m ³ TWA:200 ppm STEL:1468 mg/m ³ STEL:400 ppm
Methyl ethyl ketone (CAS #: 78-93-3)	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:200 mg/m ³ TWA:67 ppm	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	
Methyl acetate (CAS #:79-20-9)	TWA:610 mg/m ³ TWA:200 ppm STEL: 760 mg/m ³ STEL: 250 ppm		TWA:100 mg/m ³	TWA:450 mg/m ³ TWA:150 ppm STEL: 900 mg/m ³ STEL: 300 ppm	
Acetone (CAS #:67-64-1)	TWA:1210 mg/m ³ TWA:500 ppm STEL: 3630 mg/m ³ (calculated) STEL: 1500 ppm (calculated)	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1210 mg/m ³ TWA:500 ppm 2420 mg/m ³ 1000 ppm	TWA:1210 mg/m ³ TWA:500 ppm

Chemical Name	Malta	Netherlands	Poland	Portugal	Romania
Ethyl acetate (CAS #: 141-78-6)	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA:734 mg/m ³ STEL: 1468 mg/m ³	TWA:734 mg/m ³ (indicative limit value) TWA:200 ppm (indicative limit value) STEL:1468 mg/m ³ (indicative limit value) STEL:400 ppm (indicative limit value)	TWA:734 mg/m ³ TWA:200 ppm STEL:1468 mg/m ³ STEL:400 ppm
Methyl ethyl ketone (CAS #: 78-93-3)	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:590 mg/m ³ TWA:197 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:450 mg/m ³ STEL: 900 mg/m ³	TWA:600 mg/m ³ (indicative limit value) TWA:200 ppm (indicative limit value) 900 mg/m ³ (indicative limit value) 300 ppm (indicative limit value)	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm
Methyl acetate (CAS #:79-20-9)			TWA:250 mg/m ³ STEL:600 mg/m ³	TWA:200 ppm STEL:250 ppm	TWA:200 mg/m ³ TWA:63 ppm STEL:600 mg/m ³ STEL:188 ppm

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Acetone (CAS #:67-64-1)	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1210 mg/m ³ TWA:500 ppm STEL:2420 mg/m ³ STEL:1 ppm	TWA:600 mg/m ³ STEL:1800 mg/m ³	TWA:1210 mg/m ³ (indicative limit value) TWA:500 ppm (indicative limit value) STEL:750 ppm	TWA:1210 mg/m ³ TWA:500 ppm
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Chemical Name	Slovakia	Slovenia	Spain	Sweden	United Kingdom
Ethyl acetate (CAS #: 141-78-6)	TWA:734 mg/m ³ TWA:200 ppm STEL: 1100 mg/m ³	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA:550 mg/m ³ TWA:150 ppm STEL: 1100 mg/m ³ STEL: 300 ppm	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm
Methyl ethyl ketone (CAS #: 78-93-3)	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³	TWA:600 mg/m ³ TWA:200 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:600 mg/m ³ (indicative limit value) TWA:200 ppm (indicative limit value) STEL: 900 mg/m ³ STEL: 300 ppm	TWA:150 mg/m ³ TWA:50 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:600 mg/m ³ TWA:200 ppm STEL: 899 mg/m ³ STEL: 300 ppm
Methyl acetate (CAS #:79-20-9)	TWA:310 mg/m ³ TWA:100 ppm STEL: 770 mg/m ³	TWA:620 mg/m ³ TWA:200 ppm STEL: 1240 mg/m ³ STEL: 400 ppm	TWA:616 mg/m ³ TWA:200 ppm STEL: 770 mg/m ³ STEL: 250 ppm	TWA:450 mg/m ³ TWA:150 ppm STEL: 900 mg/m ³ STEL: 300 ppm	TWA:616 mg/m ³ TWA:200 ppm STEL: 770 mg/m ³ STEL: 250 ppm
Acetone (CAS #:67-64-1)	TWA:1210 mg/m ³ TWA:500 ppm	TWA:1210 mg/m ³ TWA:500 ppm STEL: 2420 mg/m ³ STEL: 1000 ppm	TWA:1210 mg/m ³ (indicative limit value) TWA:500 ppm (indicative limit value)	TWA:600 mg/m ³ TWA:250 ppm STEL: 1200 mg/m ³ STEL: 500 ppm	TWA:1210 mg/m ³ TWA:500 ppm STEL: 3620 mg/m ³ STEL: 1500 ppm

Chemical Name	Norway	Switzerland	USA		
Ethyl acetate (CAS #: 141-78-6)	TWA:734 mg/m ³ TWA:200 ppm STEL: 1468 mg/m ³ (value from the regulation) STEL: 400 ppm (value from the regulation)	TWA:730 mg/m ³ TWA:200 ppm STEL: 1460 mg/m ³ STEL: 400 ppm	TWA:400 ppm		
Methyl ethyl ketone (CAS #: 78-93-3)	TWA:220 mg/m ³ TWA:75 ppm STEL: 275 mg/m ³ (value calculated) STEL: 112.5 ppm (value calculated)	TWA:590 mg/m ³ TWA:200 ppm STEL: 590 mg/m ³ STEL: 200 ppm	TWA:200 ppm STEL: 300 ppm		
Methyl acetate (CAS #:79-20-9)	TWA:305 mg/m ³ TWA:100 ppm STEL: 381.25 mg/m ³ (value calculated) STEL: 150 ppm (value calculated)	TWA:310 mg/m ³ TWA:100 ppm STEL: 1240 mg/m ³ STEL: 400 ppm	TWA:200 ppm STEL: 250 ppm		
Acetone (CAS #:67-64-1)	TWA:295 mg/m ³ TWA:125 ppm STEL: 368.75 mg/m ³ (value calculated) STEL: 156.25 ppm (value calculated)	TWA:1200 mg/m ³ TWA:500 ppm STEL: 2400 mg/m ³ STEL: 1000 ppm	TWA:250 ppm STEL: 500 ppm		

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Eyewash station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colorless to slight yellow
Odour	: Solvent odour
Odour threshold	: Not available
Melting point	: -73.5 °C
Freezing point	: Not available
Boiling point	: 70 – 80 °C
Flammability	: Highly flammable liquid and vapour.
Explosive properties	: Non explosive.
Lower explosion limit	: 1.2 vol %
Upper explosion limit	: 7.5 vol %
Flash point	: 0 – 23 °C
Auto-ignition temperature	: 408 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available

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Solubility	: Insoluble in water. Soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Kow)	: Ethyl acetate (141-78-6): 0.73 (at 20 °C (at pH 7) Methyl ethyl ketone (78-93-3): 0.3 (at 40 °C (at pH 7) Methyl acetate (79-20-9): 0.18 Acetone (67-64-1): -0.24
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.75 – 0.85
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Temperatures over 40 °C.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

In the event of thermal decomposition : Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylacetate (CAS #: 141-78-6)	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	4000 ppm (Rat) 4h
Methyl ethyl ketone (CAS #: 78-93-3)	2483 mg/kg (Rat) ≈ 2193 mg/kg	5000 mg/kg (Rabbit)	11700 ppm (Rat) 4 h
Methyl acetate (CAS #: 79-20-9)	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	> 49000 mg/m ³ (Rat) 4 h
Acetone (CAS #: 67-64-1)	5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m ³ (Rat) 8 h

Skin corrosion/irritation

Not classified

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Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified

Aspiration hazard

Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute)

: Not classified

Hazardous to the aquatic environment, long-term (chronic)

: Not classified

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Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Ethylacetate (CAS #: 141-78-6)	-	220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50	560: 48 h Daphnia magna mg/L EC50 Static
Methyl ethyl ketone (CAS #: 78-93-3)	2029 :72 h Pseudokirchneriella subcapitata mg/L EC50	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through 2993 : 96 h Pimephales promelas mg/LC50	>520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50
Methyl acetate (CAS #: 79-20-9)	>120: 72 h Desmodesmus subspicatus mg/L EC50	295 - 348: 96 h Pimephales promelas mg/L LC50 flow-through 250 - 350: 96 h Brachydanio rerio mg/L LC50 static	1026.7: 48 h Daphnia magna mg/L EC50
Acetone (CAS #: 67-64-1)	-	4.74 – 6.33: 96 h Oncorhynchus mykiss ml/l LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Methyl ethyl ketone (78-93-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 % 28 day(s), OECD 301 D, ECHA

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Ethylacetate (CAS #: 141-78-6)	0.73 (at 20 °C (at pH 7)
Methyl ethyl ketone (CAS #: 78-93-3)	0.3 (at 40 °C (at pH 7)
Methyl acetate (CAS #: 79-20-9)	0.18
Acetone (CAS #: 67-64-1)	-0.24

Chemical Name	Bioconcentration factor (BCF)
Ethylacetate (CAS #: 141-78-6)	30
Acetone (CAS #: 67-64-1)	0.69

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1133	UN 1133	UN 1133	UN 1133	UN 1133
14.2. UN proper shipping name				
ADHESIVES, containing flammable liquid.	ADHESIVES, containing flammable liquid.	ADHESIVES, containing flammable liquid.	ADHESIVES, containing flammable liquid.	ADHESIVES, containing flammable liquid.
Transport document description				
UN 1133 ADHESIVES, 3, II, (D/E)	UN 1133 ADHESIVES, 3, II	UN 1133 Adhesives, 3, II	UN 1133 ADHESIVES, 3, II	UN 1133 ADHESIVES, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640C
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP8
Tank code (ADR) : L1.5BN
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33

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Orange plates	:	
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Tunnel restriction code (ADR)	:	D/E
EAC code	:	•3YE

Transport by sea

Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
Special packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T4
Tank special provisions (IMDG)	:	TP1, TP8
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	B
Properties and observations (IMDG)	:	Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L

Inland waterway transport

Classification code (ADN)	:	F1
Special provisions (ADN)	:	640C
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E2
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	1

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	640C
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001
Special packing provisions (RID)	:	PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1, TP8
Tank codes for RID tanks (RID)	:	L1.5BN
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE7
Hazard identification number (RID)	:	33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I
Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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Abbreviations and acronyms:

EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : Loli. ECHA (European Chemicals Agency).

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.