

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : Bijlard Contact Tix
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial use, Professional use
Use of the substance/mixture : Contact glue

Title	Life cycle stage	Use descriptors
Bijlard Contact Tix	Industrial, Professional	SU19, PC1

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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2718 SR Zoetermeer - The Netherlands
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info@bijlard.com - www.bijlard.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

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
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazardous ingredients

: acetone; propan-2-one; propanone; ethyl acetate; methylcyclohexane; butanone; ethyl methyl ketone

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapours. P280 - Wear protective gloves, eye protection, protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains rosin; colophony. May produce an allergic reaction. EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butanone; ethyl methyl ketone	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	30 - 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-46	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
methylcyclohexane	(CAS-No.) 108-87-2 (EC-No.) 203-624-3 (EC Index-No.) 601-018-00-7 (REACH-no) 01-2119556887-18	10 - 20	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
acetone; propan-2-one; propanone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Reaction mass of 2,2' Methylene bis(4-tert-butylphenol), 4-tert-butyl-2,6-bis[(5-tert-butyl-2-hydroxyphenyl)methyl]phenol and 2,2'-methylenebis[4-tert-butyl-6-[(5-tert-butyl-2-hydroxyphenyl)methyl]phenol]	(CAS-No.) 25085-50-1 (EC-No.) 472-160-3	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
rosin; colophony	(CAS-No.) 8052-10-6 (EC-No.) 232-484-6 (EC Index-No.) 650-015-00-7	0.1 - 1	Skin Sens. 1, H317
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index-No.) 030-013-00-7 (REACH-no) 01-2119463881-32	0.1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

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. In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical attention if ill effect develops.

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

- Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after skin contact : Irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : Eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical, CO₂, or water spray or regular foam. Making extinguishing agents environment-friendly.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
Reactivity in case of fire : Combustion produces irritating gases.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear personal protective equipment. Keep public away from danger area. Provide adequate ventilation.

6.1.1. For non-emergency personnel

- Emergency procedures : No open flames, no sparks, and no smoking. Do not breathe vapours. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : 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. Ensure good ventilation of the work station. Avoid breathing Vapours. Avoid contact with skin and eyes.
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Protect from freezing. Protect from heat and direct sunlight.
Information on mixed storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No supplementary information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone; propan-2-one; propanone (67-64-1)

EU	Local name	Acetone
EU	IOELV TWA (mg/m ³)	1210 mg/m ³

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acetone; propan-2-one; propanone (67-64-1)		
EU	IOELV TWA (ppm)	500 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m ³)	1210 mg/m ³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m ³)	3620 mg/m ³
United Kingdom	WEL STEL (ppm)	1500 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

ethyl acetate (141-78-6)		
EU	Local name	Ethyl acetate
EU	IOELV TWA (mg/m ³)	734 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	1486 mg/m ³
EU	IOELV STEL (ppm)	400 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Ethyl acetate
United Kingdom	WEL TWA (mg/m ³)	734 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	1468 mg/m ³
United Kingdom	WEL STEL (ppm)	400 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

butanone; ethyl methyl ketone (78-93-3)		
EU	Local name	Butanone
EU	IOELV TWA (mg/m ³)	600 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	900 mg/m ³
EU	IOELV STEL (ppm)	300 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Butan-2-one (methyl ethyl ketone)
United Kingdom	WEL TWA (mg/m ³)	600 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	899 mg/m ³
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

zinc oxide (1314-13-2)		
EU	Local name	Zinc oxide
EU	Notes	(Ongoing)

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zinc oxide (1314-13-2)		
EU	Regulatory reference	SCOEL Recommendations
Germany	TRGS 910 Acceptable concentration notes	
acetone; propan-2-one; propanone (67-64-1)		
PNEC (Water)		
PNEC aqua (freshwater)	10.6 mg/l	
PNEC aqua (marine water)	1.06 mg/l	
PNEC aqua (intermittent, freshwater)	21 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	30.4 mg/kg bw	
PNEC sediment (marine water)	3.04 mg/kg bw	
PNEC (Soil)		
PNEC soil	29.5 mg/kg bw	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	
ethyl acetate (141-78-6)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1468 mg/m ³	
Acute - local effects, inhalation	1468 mg/m ³	
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	734 mg/m ³	
Long-term - local effects, inhalation	734 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	734 mg/m ³	
Acute - local effects, inhalation	734 mg/m ³	
Long-term - systemic effects, oral	4.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	367 mg/m ³	
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day	
Long-term - local effects, inhalation	367 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	240 µg/l	
PNEC aqua (marine water)	24 µg/l	
PNEC aqua (intermittent, freshwater)	1.65 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1.15 mg/kg bw	
PNEC sediment (marine water)	115 µg/kg	
PNEC (Soil)		
PNEC soil	148 µg/kg	
PNEC (Oral)		
PNEC oral (secondary poisoning)	200 mg/kg	
PNEC (STP)		
PNEC sewage treatment plant	650 mg/l	
methylcyclohexane (108-87-2)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1354.6 mg/m ³	

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methylcyclohexane (108-87-2)	
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	64.3 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1016 mg/m ³
Long-term - systemic effects, oral	400 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	16 mg/m ³
Long-term - systemic effects, dermal	800 µg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.34 µg/l
PNEC aqua (marine water)	134 ng/l
PNEC aqua (intermittent, freshwater)	13.4 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	36.2 µg/kg
PNEC sediment (marine water)	3.62 µg/kg
PNEC (Soil)	
PNEC soil	9.7 µg/kg
PNEC (STP)	
PNEC sewage treatment plant	273 µg/l
butanone; ethyl methyl ketone (78-93-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	600 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	31 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	106 mg/m ³
Long-term - systemic effects, dermal	412 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	55.8 mg/l
PNEC aqua (marine water)	55.8 mg/l
PNEC aqua (intermittent, freshwater)	55.8 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	284.74 mg/kg bw
PNEC sediment (marine water)	284.7 mg/kg bw
PNEC (Soil)	
PNEC soil	22.5 mg/kg bw
PNEC (Oral)	
PNEC oral (secondary poisoning)	1 g/kg
PNEC (STP)	
PNEC sewage treatment plant	709 mg/l
zinc oxide (1314-13-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m ³
Long-term - local effects, inhalation	500 µg/m ³

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zinc oxide (1314-13-2)	
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.5 mg/m ³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	20.6 µg/l
PNEC aqua (marine water)	6.1 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	117.8 mg/kg bw
PNEC sediment (marine water)	56.5 mg/kg bw
PNEC (Soil)	
PNEC soil	35.6 mg/kg bw
PNEC (STP)	
PNEC sewage treatment plant	100 µg/L

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

Hand protection:

Wear suitable gloves tested to EN374. Recommendation: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (>=0.4 mm), butyl rubber (>=0.7 mm) and others. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Wear eye glasses with side protection according to EN 166.

Skin and body protection:

Recommendation: Overall. Standard. Standard EN 1149-5 - Protective clothing: Electrostatic properties. EN 13034. Wear rubber boots

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Recommended: Filter AX (brown).

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Keep away from food, drink and animal feedingstuffs. Do not breathe vapours. Avoid contact with skin and eyes. Wash hands before breaks and after work. If on skin, take off contaminated clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous. Pasty.
Colour	: No data available
Odour	: characteristic.
Odour threshold	: not determined

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pH	: not determined
Relative evaporation rate (butylacetate=1)	: not determined
Relative evaporation rate (ether=1)	: not determined
Melting point	: not determined
Freezing point	: not determined
Boiling point	: 55 °C
Flash point	: -4 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 105 hPa
Relative vapour density at 20 °C	: not determined
Relative density	: not determined
Density	: 0.842 g/cm ³
Solubility	: Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: > 20.5 mm ² /s @ 40°C
Viscosity, dynamic	: 1000 mPa·s
Explosive properties	: Product is not explosive. Vapours can form explosive mixtures with air.
Oxidising properties	: No data available
Explosive limits	: 1.8 - 11.5 vol %

9.2. Other information

VOC content : 80.4 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

acetone; propan-2-one; propanone (67-64-1)

LD50 oral rat	5800 mg/kg bodyweight
LD50 dermal rabbit	7426 - 15800 mg/kg
LC50 inhalation rat (mg/l)	76 mg/l/4h

ethyl acetate (141-78-6)

LD50 oral rat	11.3 ml/kg
LD50 dermal rabbit	20000 mg/kg
LC50 inhalation rat (ppm)	6000 ppm/4h

methylcyclohexane (108-87-2)

LD50 dermal rabbit	2000 mg/kg
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LC50 inhalation rat (mg/l)	26.3 mg/l (60 minutes)
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butanone; ethyl methyl ketone (78-93-3)

LD50 dermal rabbit	10 ml/kg
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zinc oxide (1314-13-2)

LD50 oral rat	2000 - 5000 mg/kg
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LD50 dermal rat	2000 mg/kg
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LC50 inhalation rat (mg/l)	1.79 - 5.7 mg/l/4h
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Skin corrosion/irritation	: Causes skin irritation. pH: not determined
Serious eye damage/irritation	: Causes serious eye irritation. pH: not determined
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.

zinc oxide (1314-13-2)

NOAEL (oral, rat)	31.52 mg/kg bodyweight/day
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STOT-repeated exposure	: Not classified
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zinc oxide (1314-13-2)

LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight/day
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Aspiration hazard	: Not classified
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Viscosity, kinematic	> 20.5 mm ² /s @ 40°C
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

acetone; propan-2-one; propanone (67-64-1)

LC50 fishes	5.54 - 8.12 g/l
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EC50 Daphnia	8.8 g/l
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ethyl acetate (141-78-6)

LC50 fishes	230 mg/l
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EC50 other aquatic organisms 1	165 mg/l
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EC50 72h algae (1)	5600 mg/l
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methylcyclohexane (108-87-2)

LC50 fishes	2.07 mg/l
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EC50 Daphnia	326 µg/l
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EC50 72h algae (1)	134 µg/L
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butanone; ethyl methyl ketone (78-93-3)

LC50 fishes	2993 mg/l
EC50 Daphnia	308 - 5091 mg/l
EC50 72h algae (1)	2.029 g/l

zinc oxide (1314-13-2)

LC50 fishes	112 - 8062 µg/l
EC50 other aquatic organisms 1	155 - 100000 µg/L
EC50 96h algae (1)	0.3 - 1.94 mg/l
NOEC chronic crustacea	300 µg/l 3 months.
NOEC chronic algae	1071 mg/l 16 days.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

acetone; propan-2-one; propanone (67-64-1)

Log Pow	-0.24 - -0.23
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ethyl acetate (141-78-6)

Log Pow	0.7
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methylcyclohexane (108-87-2)

Log Pow	3.88
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butanone; ethyl methyl ketone (78-93-3)

Log Pow	0.3 @ 40 °C / pH 7
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

acetone; propan-2-one; propanone (67-64-1)	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
ethyl acetate (141-78-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
methylcyclohexane (108-87-2)	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
butanone; ethyl methyl ketone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not dispose of with household waste. Do not allow to enter drains.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances






SECTION 14: Transport information

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

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1133	UN 1133	UN 1133	UN 1133	UN 1133
14.2. UN proper shipping name				
ADHESIVES	ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
Transport document description				
UN 1133 ADHESIVES, 3, III, (E)	UN 1133 ADHESIVES, 3, III	UN 1133 Adhesives, 3, III	UN 1133 ADHESIVES, 3, III	UN 1133 ADHESIVES, 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
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
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC02, R001
Special packing provisions (ADR) : PP1, BB4
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : E
EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 223, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : A
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) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L

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CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: F1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC02, R001
Special packing provisions (RID)	: PP1, BB4
Mixed packing provisions (RID)	: MP19
Transport category (RID)	: 3
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 33

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	methylcyclohexane
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	acetone; propan-2-one; propanone - ethyl acetate - methylcyclohexane - butanone; ethyl methyl ketone
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	acetone; propan-2-one; propanone - ethyl acetate - methylcyclohexane - butanone; ethyl methyl ketone
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	acetone; propan-2-one; propanone - ethyl acetate - methylcyclohexane - butanone; ethyl methyl ketone
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	acetone; propan-2-one; propanone - ethyl acetate - methylcyclohexane - butanone; ethyl methyl ketone

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 80.4 %

Directive 2012/18/EU (SEVESO III)

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Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
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
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency).

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking
EUH208	Contains rosin; colophony. May produce an allergic reaction.

Full text of use descriptors

PC1	Adhesives, sealants
SU19	Building and construction work

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

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.