

ENGLISH

BONDING ADHESIVE

SAFETY DATA SHEET

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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Safety Data Sheet

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

1.1. Product identifier

Product form : Mixture

Trade name : Pandser Bonding Adhesive Type of product : Adhesives, sealants

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Berdal Rubber & Plastics B.V. Bedrijvenpark Twente 193 7602 KG Almelo Nederland

Tel: +31 (0)546 572672 Fax: +31 (0)546 575635

E-Mail: verkoop@berdal.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3

Skin corrosion/irritation, Category 2

H315

Serious eye damage/eye irritation, Category 2

H319

Skin sensitisation, Category 1

Specific target organ toxicity – Single exposure, Category 3,

Narcosis

Hazardous to the aquatic environment – Chronic Hazard,

H411

Category 2

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 skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.



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2.2. Label elements

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

Hazard pictograms (CLP)

GHS02 GHS07 GHS09

Signal word (CLP) : Warning

Contains : hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; cyclohexane; acetone;

4-tert-butylphenol formaldehyde resin

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 - Avoid breathing vapours.

P271 - Use only outdoors or in a well-ventilated area.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P501 - Dispose of contents, container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation. This product is not to be used under conditions of poor ventilation.

This product is not to be used under conditions of poor vent

This product is not to be used for carpet laying.

2.3. Other hazards

Extra phrases

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
ethyl acetate (141-78-6)	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
Cyclohexane (110-82-7)	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
Zinc oxide (1314-13-2)	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
2,6-di-tert-butyl-p-cresol (128-37-0)	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
Acetone (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
butanone (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

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 substance(s) are 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 %



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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	REACH-no: 01-2119475514- 35	≥ 10 - < 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411
ethyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-	≥ 10 - < 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Cyclohexane substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1 REACH-no: 01-2119463273-	≥ 10 - < 25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Acetone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330-	≥ 10 - < 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
butanone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-	≥ 10 - < 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
4-tert-butylphenol formaldehyde resin	CAS-No.: 25085-50-1 EC-No.: 607-533-3	≥ 5 – < 10	Skin Sens. 1, H317
2,6-di-tert-butyl-p-cresol substance with national workplace exposure limit(s) (GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119555270-	≥ 0.1 – < 1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
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- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

: If you feel unwell, seek medical advice (show the label where possible). First-aid measures general : Remove person to fresh air and keep comfortable for breathing. First-aid measures after inhalation



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First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin

irritation 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 : Call a poison center or a doctor if you feel unwell.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions : Cool closed containers exposed to fire with water spray.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. No open flames. No smoking. Use special care

to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Evacuate unnecessary

personnel.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite.

Methods for cleaning up : Take up liquid spill into absorbent material. Scoop absorbed substance into closing

containers.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Flammable vapours may accumulate in the container. Handle empty containers with care

because residual vapours are flammable.

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. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Store in a well-ventilated place. Keep container tightly closed. Provide local exhaust or general room ventilation.

Storage conditions
Incompatible products

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

: Heat sources. Ignition sources. Strong acids. Strong bases.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

EU - Indicative Occupational Exposure Limit (IOEL) Local name Ethyl acetate IOEL TWA 734 mg/m³ 200 ppm IOEL STEL 1468 mg/m³ 400 ppm Regulatory reference COMMISSION DIRECTIVE (EU) 2017/164	ethyl acetate (141-78-6)		
IOEL TWA 734 mg/m³ 200 ppm IOEL STEL 1468 mg/m³ 400 ppm	EU - Indicative Occupational Exposure Limit (IOEL)		
200 ppm IOEL STEL 1468 mg/m³ 400 ppm			
IOEL STEL 1468 mg/m³ 400 ppm			
400 ppm			
Regulatory reference COMMISSION DIRECTIVE (EU) 2017/164			
COMMISSION DIRECTIVE (EU) 2017/164			
United Kingdom - Occupational Exposure Limits			
Local name Ethyl acetate			
WEL TWA (OEL TWA) 734 mg/m³			
200 ppm			
WEL STEL (OEL STEL) 1468 mg/m³			
400 ppm			
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			
Cyclohexane (110-82-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name Cyclohexane			
IOEL TWA 700 mg/m³			



Cyclohexane (110-82-7)		
	200 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Lim	its	
Local name	Cyclohexane	
WEL TWA (OEL TWA)	350 mg/m³	
	100 ppm	
WEL STEL (OEL STEL)	1050 mg/m³	
	300 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
2,6-di-tert-butyl-p-cresol (128-37-0)		
United Kingdom - Occupational Exposure Lim	its	
Local name	2,6-Di-tert-butyl-p-cresol	
WEL TWA (OEL TWA)	10 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetone	
IOEL TWA	1210 mg/m³	
	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Lim	its	
Local name	Acetone	
WEL TWA (OEL TWA)	1210 mg/m³	
	500 ppm	
WEL STEL (OEL STEL)	3620 mg/m³	
	1500 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
butanone (78-93-3)		
EU - Indicative Occupational Exposure Limit (I	OEL)	
Local name	Butanone	
IOEL TWA	600 mg/m³	
	200 ppm	
IOEL STEL	900 mg/m³	
	300 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limit	its	
Local name	Butan-2-one (methyl ethyl ketone)	
WEL TWA (OEL TWA)	600 mg/m³	



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butanone (78-93-3)		
	200 ppm	
WEL STEL (OEL STEL)	899 mg/m³	
	300 ppm	
Remark	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)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Butan-2-one (methyl ethyl ketone)	
BMGV	70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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. Use spark-/explosionproof appliances and lighting system. No open flames. No smoking. Avoid the build-up of electrostatic charge.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves against chemicals (EN 374)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Gas mask with filter type A

8.2.2.4. Thermal hazards

No additional information available



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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 : light yellow. Odour : solvent-like. Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not applicable : Not available Lower explosion limit Upper explosion limit : Not available Flash point : 37 °C (ISO 2719 A) Auto-ignition temperature : Not available Decomposition temperature : Not available

Viscosity, kinematic : 4705 mm²/s (calculated value, 20°C) Viscosity, dynamic : 4000 mPa·s (EN ISO 2555 20°C)

: Not available

Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available

Density : 0.85 g/cm³ (EN ISO 2811-2, 20°C)

Relative density : Not available
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

VOC content : 75 – 80 %

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.

10.5. Incompatible materials

Strong acids. Strong bases.



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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 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

Acute toxicity (inhalation)	: Not classified
ethyl acetate (141-78-6)	
LD50 oral rat	10200 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg bodyweight (24 hour cuff method, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
hydrocarbons, C6-C7, n-alkanes, isoalkane	s, cyclics, <5% n-hexane
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LC50 Inhalation - Rat	> 25.2 mg/l air Animal: rat
Cyclohexane (110-82-7)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 32.88 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.7 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 6000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 15800 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	132 mg/l (3 h, Rat, Male, Experimental value, Inhalation (vapours))



butanone (78-93-3)	
LD50 oral rat	2193 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
ethyl acetate (141-78-6)	
рН	No data available in the literature
Cyclohexane (110-82-7)	
рН	7 (0.005 %, 24 °C)
Zinc oxide (1314-13-2)	
рН	6.07 - 6.55 (< 0.01 %, 20 °C, OECD 105: Water Solubility)
2,6-di-tert-butyl-p-cresol (128-37-0)	
рН	No data available in the literature
Acetone (67-64-1)	
рН	5 – 6 (20 °C)
butanone (78-93-3)	
рН	No data available in the literature
Serious eye damage/irritation	: Causes serious eye irritation.
ethyl acetate (141-78-6)	
рН	No data available in the literature
Cyclohexane (110-82-7)	
рН	7 (0.005 %, 24 °C)
Zinc oxide (1314-13-2)	
рН	6.07 - 6.55 (< 0.01 %, 20 °C, OECD 105: Water Solubility)
2,6-di-tert-butyl-p-cresol (128-37-0)	
рН	No data available in the literature
Acetone (67-64-1)	
рН	5 – 6 (20 °C)
butanone (78-93-3)	
рН	No data available in the literature
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	. INULUIASSIIIEU
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)
Reproductive toxicity	: Not classified
Acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female



Acetone (67-64-1)	
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)
STOT-single exposure	: May cause drowsiness or dizziness.
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
hydrocarbons, C6-C7, n-alkanes, isoal	kanes, cyclics, <5% n-hexane
STOT-single exposure	May cause drowsiness or dizziness.
Cyclohexane (110-82-7)	
STOT-single exposure	May cause drowsiness or dizziness.
Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
butanone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Zinc oxide (1314-13-2)	
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,6-di-tert-butyl-p-cresol (128-37-0)	
LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Animal sex: male
Aspiration hazard	: Not classified
Pandser Bonding Adhesive	
Viscosity, kinematic	4705 mm²/s (calculated value, 20°C)
ethyl acetate (141-78-6)	
Viscosity, kinematic	No data available in the literature
hydrocarbons, C6-C7, n-alkanes, isoal	kanes, cyclics, <5% n-hexane
Viscosity, kinematic	0.61 mm²/s
Cyclohexane (110-82-7)	
Viscosity, kinematic	1.16 mm²/s (26 °C, Calculated)
Zinc oxide (1314-13-2)	
Viscosity, kinematic	Not applicable (solid)



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2,6-di-tert-butyl-p-cresol (128-37-0)	
Viscosity, kinematic	3.47 mm²/s (0 °C, ASTM D445: Capillary viscometer)
Acetone (67-64-1)	
Viscosity, kinematic	No data available in the literature
butanone (78-93-3)	
Viscosity, kinematic	No data available in the literature

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 substance(s) are 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

Potential adverse human health effects and symptoms

: Under normal conditions of use, no adverse effects to health have been observed

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

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

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Toxic to aquatic life with long lasting effects.

Two rapidly degradable		
ethyl acetate (141-78-6)		
LC50 - Fish [1]	230 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)	
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Cyclohexane (110-82-7)		
LC50 - Fish [1]	4.5 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration)	
EC50 - Crustacea [1]	0.9 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	3.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	9.317 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
Zinc oxide (1314-13-2)		
LC50 - Fish [1]	0.169 mg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Zinc ion)	



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Zinc oxide (1314-13-2)		
EC50 - Crustacea [1]	1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Zinc ion)	
2,6-di-tert-butyl-p-cresol (128-37-0)		
LC50 - Fish [1]	0.199 mg/l (ECOSAR v1.00, 96 h, Pisces, QSAR, Lethal)	
EC50 - Crustacea [1]	0.48 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)	
EC50 72h - Algae [1]	> 0.24 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'	
Acetone (67-64-1)		
LC50 - Fish [1]	6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
butanone (78-93-3)		
LC50 - Fish [1] 2973 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales professystem, Fresh water, Experimental value, GLP)		
EC50 - Crustacea [1]	308 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	1220 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	

12.2. Persistence and degradability

ethyl acetate (141-78-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.293 g O ₂ /g substance
Chemical oxygen demand (COD) 1.69 g O ₂ /g substance	
ThOD	1.82 g O ₂ /g substance
Cyclohexane (110-82-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.22 g O ₂ /g substance
ThOD 3.425 g O ₂ /g substance	
Zinc oxide (1314-13-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)



Zinc oxide (1314-13-2)			
ThOD	Not applicable (inorganic)		
2,6-di-tert-butyl-p-cresol (128-37-0)			
Persistence and degradability	Not readily biodegradable in water.		
Biochemical oxygen demand (BOD)	0.51 g O₂/g substance		
Chemical oxygen demand (COD)	2.27 g O ₂ /g substance		
ThOD	2.977 g O ₂ /g substance		
Acetone (67-64-1)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.43 g O₂/g substance		
Chemical oxygen demand (COD)	D) 1.92 g O ₂ /g substance		
ThOD	2.2 g O ₂ /g substance		
butanone (78-93-3)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	2.03 g O₂/g substance		
Chemical oxygen demand (COD)	2.31 g O₂/g substance		
ThOD 2.44 g O ₂ /g substance			

ethyl acetate (141-78-6)		
BCF - Fish [1]	30 (3 day(s), Leuciscus idus, Static renewal, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	0.68 (Experimental value, EPA OPPTS 830.7560, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane	
Partition coefficient n-octanol/water (Log Pow)	3.4 – 5.2	
Cyclohexane (110-82-7)		
BCF - Fish [1]	167 l/kg (Pimephales promelas, QSAR, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Zinc oxide (1314-13-2)		
Bioaccumulative potential	Not bioaccumulative.	
2,6-di-tert-butyl-p-cresol (128-37-0)		
Partition coefficient n-octanol/water (Log Pow)	4.17 (Experimental value, 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).	
Acetone (67-64-1)		
BCF - Fish [1]	0.69 (Pisces, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)	



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Acetone (67-64-1)		
Low potential for bioaccumulation (BCF < 500).		
0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)		
Low potential for bioaccumulation (Log Kow < 4).		

12.4. Mobility in soil

2.4. Mobility III 3011			
ethyl acetate (141-78-6)			
Surface tension	No data available in the literature		
Ecology - soil	Low potential for adsorption in soil.		
Cyclohexane (110-82-7)			
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.9 (log Koc, QSAR)		
Ecology - soil	Low potential for adsorption in soil.		
Zinc oxide (1314-13-2)			
Surface tension	Not applicable (solid)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (log Koc, Literature study)		
Ecology - soil Low potential for adsorption in soil.			
2,6-di-tert-butyl-p-cresol (128-37-0)			
Surface tension	Not applicable (water solubility < 1 mg/l)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.4 (log Koc, SRC PCKOCWIN v1.66, Calculated value)		
Ecology - soil Low potential for mobility in soil. May be harmful to plant growth, blooming formation.			
Acetone (67-64-1)			
Surface tension	23.3 mN/m (20 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Highly mobile in soil.		
butanone (78-93-3)			
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.654 – 1.281 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil Highly mobile in soil. Slightly harmful to plants.			

12.5. Results of PBT and vPvB assessment

Component		
ethyl acetate (141-78-6)	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	



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Component		
Cyclohexane (110-82-7)	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	
Zinc oxide (1314-13-2)	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	
2,6-di-tert-butyl-p-cresol (128-37-0)	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	
Acetone (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	
butanone (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. 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 substance(s) are 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

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

Ecological information

European List of Waste (LoW, EC 2000/532)

- : Collect all waste in suitable and labelled containers and dispose according to local legislation.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Do not discharge into drains or the environment.
- : Dispose in a safe manner in accordance with local/national regulations.
- : Flammable vapours may accumulate in the container.
- : Avoid release to the environment.
- : 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1133 UN 1133		UN 1133	UN 1133	UN 1133
14.2. UN proper shipping name				
ADHESIVES	ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
Transport document descr	Transport document description			
UN 1133 ADHESIVES, 3, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS (37°C c.c.)	UN 1133 Adhesives, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, III, ENVIRONMENTALLY HAZARDOUS



Safety Data Sheet

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ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard	class(es)		^	
3	3	3	3	3
₩ 2	3	₩ <u></u> 2	₩ <u>2</u>	₩ <u></u>
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
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

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



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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
Limited quantities (RID) : 5L
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. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(a)	Pandser Bonding Adhesive; ethyl acetate; hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane; Cyclohexane; Acetone; butanone	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. 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 and 2, 2.15 types A to F	
3(b)	Pandser Bonding Adhesive; ethyl acetate; hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane; Cyclohexane; Acetone; butanone; 4-tert- butylphenol formaldehyde resin	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	
3(c)	Pandser Bonding Adhesive; hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane; Cyclohexane	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	
57.	Cyclohexane	Cyclohexane	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

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



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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)

VOC Directive (2004/42)

VOC content : 75 – 80 %

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : E2; P5C

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 within 24 hours.

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Label elements. Composition/information on ingredients.

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	



Abbreviations and acre	Abbreviations and acronyms:		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
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		

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	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	



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Full text of H- and EUH-statements:			
H225	Highly flammable liquid and vapour.		
H226	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.		
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.		
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		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Liq. 3	H226	On basis of test data	
Skin Irrit. 2	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Skin Sens. 1	H317	Calculation method	
STOT SE 3	H336	Calculation method	
Aquatic Chronic 2	H411	Calculation method	

Safety Data Sheet (SDS), EU-2023-1

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.



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