SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

BOSTIK SIMSON PREP P
Supercedes date 19-Aug-2024

Revision date 16-Jan-2025
Revision Number 2.06

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

1.1. Product identifier

Product Name BOSTIK SIMSON PREP P

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Primers, Sealers, and Undercoaters

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name
Bostik GmbH
Industriestrasse 3 – 11
33829 Borgholzhausen, Germany
Tel: +49 (0) 5425 / 801 0
Fax: +49 (0) 5425 / 801 140

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Ireland **NPIC - National Poison Information Centre**
Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)
Healthcare Professionals: +353 (01) 8092566 (24 hour service)
United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)
Europe 112

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)
Eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	

2.2. Label elements

Contains Ethyl acetate; Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer; Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester; n-Butyl acetate; 2-ethylhexanal; Succinic anhydride

Signal word
Danger

Hazard statements
H225 - Highly flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

EU Specific Hazard Statements
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 - Avoid breathing mist/vapours/spray
P280 - Wear protective gloves, eye protection and face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

Special provisions concerning the labelling of certain mixtures
Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Ethyl acetate 141-78-6	40 - <80	01-2119475103-46-XXXX	205-500-4 (607-022-00-5)	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-	-

				(EUH066)				
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer 53880-05-0	10 - <20	01-2119488734-24	931-312-3	STOT SE 3 (H335) Skin Sens. 1B (H317)	-	-	-	-
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester 140921-24-0	10 - <20	01-0000015906-63-XXXX	411-700-4 (616-079-00-5)	Skin Sens. 1 (H317)	-	-	-	-
n-Butyl acetate 123-86-4	5 - <10	01-2119485493-29-XXXX	204-658-1 (607-025-00-1)	STOT SE 3 (H336) Flam. Liq. 3 (H226) (EUH066) [B]	-	-	-	-
2-ethylhexanal 123-05-7	0.1 - <0.5	No data available	204-596-5	Flam. Liq. 3 (H226) Skin Sens. 1B (H317) Repr. 2 (H361)	-	-	-	-
Succinic anhydride 108-30-5	0.1 - <0.3	01-2119485841-30-XXXX	203-570-0 (607-103-00-5)	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) STOT SE 3 (H335) Skin Sens. 1 (H317) (EUH071)	-	-	-	-

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

[B] - Substance with a Community workplace exposure limit

Note 2 - The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ethyl acetate	205-500-4 (607-022-00-5)	141-78-6	-	-	-	14.4131	-
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	931-312-3	53880-05-0	-	-	-	-	-
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester	411-700-4 (616-079-00-5)	140921-24-0	-	-	-	-	-
n-Butyl acetate	204-658-1	123-86-4	-	-	0.74	-	-

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
	(607-025-00-1)						
2-ethylhexanal	204-596-5	123-05-7	-	-	-	-	-
Succinic anhydride	203-570-0 (607-103-00-5)	108-30-5	1510	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. If symptoms persist, call a doctor.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. See section 8 for more information.

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

Symptoms Itching. Rashes. Hives. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure No information available.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the Risk of ignition. Keep product and empty container away from heat and sources of

chemical	ignition. In the event of fire, cool tanks with water spray.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Do not breathe vapour or mist. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent product from entering drains. Do not allow to enter into soil/subsoil. Refer to protective measures listed in Sections 7 and 8.

6.3. Methods and material for containment and cleaning up

Methods for containment	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Eliminate all ignition sources if safe to do so.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Ensure adequate ventilation. Avoid breathing vapours or mists. Use personal protection equipment. Avoid contact with skin, eyes or clothing.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Store in accordance with the particular national regulations. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep away from food, drink and animal feedingstuffs.
Recommended storage	Keep at temperatures between 5 and 25 °C.

temperature

7.3. Specific end use(s)

Specific use(s)
Primers, Sealers, and Undercoaters.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Chemical name	European Union	Ireland	United Kingdom
Ethyl acetate 141-78-6	TWA: 734 mg/m³ TWA: 200 ppm STEL: 1468 mg/m³ STEL: 400 ppm	TWA: 734 mg/m³ TWA: 200 ppm STEL: 1468 mg/m³ STEL: 400 ppm	TWA: 734 mg/m³ TWA: 200 ppm STEL: 1468 mg/m³ STEL: 400 ppm
n-Butyl acetate 123-86-4	TWA: 241 mg/m³ TWA: 50 ppm STEL: 723 mg/m³ STEL: 150 ppm	STEL: 150 ppm STEL: 723 mg/m³	TWA: 150 ppm TWA: 724 mg/m³ STEL: 200 ppm STEL: 966 mg/m³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Ethyl acetate (141-78-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	63 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	1468 mg/m³	
worker Long term Local health effects	Inhalation	734 mg/m³	
worker Short term Local health effects	Inhalation	1468 mg/m³	
worker Long term Systemic health effects	Inhalation	734 mg/m³	

n-Butyl acetate (123-86-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	300 mg/m³	
worker Short term Systemic health effects	Inhalation	600 mg/m³	
worker Long term	Inhalation	300 mg/m³	

Local health effects			
worker Short term Local health effects	Inhalation	600 mg/m³	
worker Long term Systemic health effects	Dermal	11 mg/kg bw/d	

Derived No Effect Level (DNEL)			
Ethyl acetate (141-78-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	4.5 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	37 mg/kg bw/d	
Consumer Short term Systemic health effects	Inhalation	734 mg/m³	
Consumer Long term Local health effects	Inhalation	367 mg/m³	
Consumer Short term Local health effects	Inhalation	734 mg/m³	
Consumer Long term Systemic health effects	Inhalation	367 mg/m³	

n-Butyl acetate (123-86-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	35.7 mg/m³	
Consumer Short term Systemic health effects	Inhalation	300 mg/m³	
Consumer Long term Local health effects	Inhalation	35.7 mg/m³	
Consumer Short term Local health effects	Inhalation	300 mg/m³	
Consumer Long term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	2 mg/kg bw/d	

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
Ethyl acetate (141-78-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.24 mg/l
Marine water	0.024 mg/l
Freshwater sediment	1.15 mg/kg
Marine sediment	0.115 mg/kg
Soil	0.148 mg/kg
Microorganisms in sewage treatment	650 mg/l

n-Butyl acetate (123-86-4)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.18 mg/l
Marine water	0.018 mg/l
Freshwater - intermittent	0.36 mg/l
Sewage treatment plant	35.6 mg/l
Freshwater sediment	0.981 mg/l
Marine sediment	0.0981 mg/l
Soil	0.0903 mg/l

8.2. Exposure controls

Engineering controls Vapours/aerosols must be exhausted directly at the point of origin. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166

Hand protection Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves must conform to standard EN 374

Skin and body protection Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Brown. White.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour Clear
Odour Solvent.

Property	Values	Remarks • Method
Melting point / freezing point	.	Data technically impossible to obtain
Initial boiling point and boiling range	>= 70 °C	
Flammability	No data available	Flammable liquid
Flammability Limit in Air		None known
Upper flammability or explosive limits	12.8 % (v/v)	
Lower flammability or explosive limits	1.2 % (v/v)	
Flash point	-4 °C	CC (closed cup)
Autoignition temperature	. °C	Data technically impossible to obtain
Decomposition temperature		None known
pH	.	Not applicable. Insoluble in water.
pH (as aqueous solution)	No data available	
Kinematic viscosity	< 20 mm²/s	@ 40°C

Dynamic viscosity	No data available	
Water solubility	Insoluble in water.	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Vapour pressure	<110 kPa	hPa @ 50 °C
Relative density	1	
Bulk density	No data available	
Density	1 g/cm³	
Relative vapour density	> 3	Estimated
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	No information available	
VOC content		approx 640 g/L

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation May cause drowsiness or dizziness.

Eye contact Causes serious eye irritation.

Skin contact Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) >2000 mg/kg
ATEmix (dermal) >2000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) >5 mg/l
ATEmix (inhalation-vapour) >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	LD50 >14000 mg/Kg (Rattus)	-	LC50 > 5Mg/L/4h/ (Rattus) Dust/mist
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester	>2000 mg/kg	> 2000 mg/kg	-
n-Butyl acetate	>10650 mg/kg (Rattus)	> 17600 mg/kg (Oryctolagus cuniculus)	=390 ppm (Rattus) 4 h
2-ethylhexanal	= 3730 mg/kg (Rat)	> 16440 mg/kg (Rat)	> 6.83 mg/L (Rat) 4 h
Succinic anhydride	= 1510 mg/kg (Rat)	LD 50 > 2000 mg/kg (Rattus) OECD 402	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Ethyl acetate (141-78-6)					
n-Butyl acetate (123-86-4)					
Method	**Species**	**Exposure route**	**Effective dose**	**Exposure time**	**Results**
OECD Test No. 404:	Rabbit	Dermal		4 hours	Non-irritant

Acute Dermal Irritation/Corrosion					

Serious eye damage/eye irritation Causes serious eye irritation.

n-Butyl acetate (123-86-4)					
Method	**Species**	**Exposure route**	**Effective dose**	**Exposure time**	**Results**
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Corneal	0.1 mL		Product score 1 Non-irritant

Respiratory or skin sensitisation May cause an allergic skin reaction.

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

Component Information		
Ethyl acetate (141-78-6)		
Method	**Species**	**Results**
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	in vivo Hamster	Negative
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro Salmonella typhimurium	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro Hamster Ovary	Negative

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

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

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure Based on available data, the classification criteria are not met.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Ethyl acetate 141-78-6	EC50: =3300mg/L (48h, Desmodesmus subspicatus)	LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas)	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560mg/L (48h, Daphnia magna)		
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer 53880-05-0	ErC50 (72h) >3.1 mg/L (DESMODESMUS SUBSPICATUS) Static (OECD 201)	LC50 (96h) >1.5 mg/L (Cyprinus carpio) (EU Method C.1)	-	EC50 (48h) >3.36 mg/L (Daphnia magna)Static (OECD guideline 202)		
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester 140921-24-0	-	LC50: =199.2mg/L (96h, Danio rerio)	-	-		
n-Butyl acetate 123-86-4	EC50: =674.7mg/L (72h, Desmodesmus subspicatus)	LC50 96 h 17 - 19 mg/L (Pimephales promelas flow-through)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50 48 h = 44 mg/L (Daphnia magna)		
2-ethylhexanal 123-05-7	EC50: =38mg/L (72h, Desmodesmus subspicatus) EC50: =52mg/L (96h, Desmodesmus subspicatus)	-	-	EC50: =11.5mg/L (48h, Daphnia magna)		
Succinic anhydride 108-30-5	EC50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h)> 100 mg/l (Danio rerio) OECD 203	-	EC50 (48h)>102 mg/L (Daphnia magna) OECD 201		

12.2. Persistence and degradability

Persistence and degradability No information available.

n-Butyl acetate (123-86-4)			
Method	**Exposure time**	**Value**	**Results**
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	83%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Ethyl acetate	0.73
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	6.7
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester	8
n-Butyl acetate	2.3
2-ethylhexanal	3.07
Succinic anhydride	2.44

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Ethyl acetate	The substance is not PBT / vPvB
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	The substance is not PBT / vPvB
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl] ester	The substance is not PBT / vPvB
n-Butyl acetate	The substance is not PBT / vPvB
Succinic anhydride	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

European Waste Catalogue 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

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate)
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing group	II
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate), 3, II, (D/E)
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	274, 601, 640D
Classification code	F1
Tunnel restriction code	(D/E)
Limited quantity (LQ)	1 L
ADR Hazard Id (Kemmler Number)	33

IMDG

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate), 3, II, (-4°C c.c.)
14.5 Marine pollutant	NP
14.6 Special precautions for user	
Special Provisions	274
Limited Quantity (LQ)	1 L
EmS-No.	F-E, S-E

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate, n-Butyl acetate), 3, II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	A3
Limited quantity (LQ)	1 L
ERG Code	3H

SECTION 15: Regulatory information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements
This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

Dangerous substance category per Seveso Directive (2012/18/EU)
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable

Persistent Organic Pollutants
Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors
Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H361 - Suspected of damaging fertility or the unborn child

SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT RE: Specific target organ toxicity - Repeated exposure
STOT SE: Specific target organ toxicity - Single exposure
EWC: European Waste Catalogue
LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA: International Air Transport Association
ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG: International Maritime Dangerous Goods
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	Sk*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

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Revision Note SDS sections updated 14

Training Advice When working with hazardous materials, regular training of operators is required by law AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE

INDUSTRIAL OR PROFESSIONAL USE

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet