



# 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 BORN2BOND ADHESIVE AND GASKET REMOVER**  
Supersedes Date: 15-Sep-2021

Revision date 30-Sep-2021  
Revision Number 1.01

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

### 1.1. Product identifier

**Product Name** BOSTIK BORN2BOND ADHESIVE AND GASKET REMOVER

**Pure substance/mixture** Mixture

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

**Recommended use** Stripping solution

**Uses advised against** None known

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

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

### 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650  
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Aerosols	Category 1 - (H222, H229)

### 2.2. Label elements

Contains Acetone, n-Butyl acetate, Propylene glycol monomethyl ether, Cyclohexanone



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**Signal word**  
Danger

## Hazard statements

H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.

## 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  
P251 - Do not pierce or burn, even after use  
P211 - Do not spray on an open flame or other ignition source  
P280 - Wear eye and face protection  
P261 - Avoid breathing vapours/spray  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

## Special provisions concerning the labelling of certain mixtures

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

## 2.3. Other hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

## PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Dimethyl ether	(603-019-00-8) 204-065-8	115-10-6	40 - <80	Flam. Gas 1 (H220) Press. Gas (H280)	-	01-2119472128-37-XXXX
Acetone	(606-001-00-8) 200-662-2	67-64-1	>25 - <40	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	01-2119471330-49-XXXX
n-Butyl acetate	(607-025-00-1) 204-658-1	123-86-4	10 - <20	STOT SE 3 (H336) Flam. Liq. 3 (H226)	-	01-2119485493-29-XXXX

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				(EUH066) [B]		
Propylene glycol monomethyl ether	(603-064-00-3) 203-539-1	107-98-2	5 - <10	STOT SE 3 (H336) Flam. Liq. 3 (H226)	-	01-2119457435-35-xxxx
Diethylene glycol monobutyl ether	(603-096-00-8) 203-961-6	112-34-5	1 - <2.5	Eye Irrit. 2 (H319)	-	01-2119475104-44-XXXX
Cyclohexanone	(606-010-00-7) 203-631-1	108-94-1	1 - <2.5	Acute Tox. 4 (H332) Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	01-2119453616-35-XXXX
Formic acid	(607-001-00-0) 200-579-1	64-18-6	0.1 - <0.5	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Corr. 1A (H314)	Eye Irrit. 2 :: 2%<=C<10% Skin Corr. 1A :: C>=90% Skin Corr. 1B :: 10%<=C<90% Skin Irrit. 2 :: 2%<=C<10%	01-2119491174-37-xxxx

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin,

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eyes or clothing.

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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

**Note to doctors** No information available.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray.

**Unsuitable extinguishing media** DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated.

**Hazardous combustion products** Carbon oxides. Carbon dioxide (CO<sub>2</sub>).

### 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** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray.

**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** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Flood with water to complete polymerization and scrape off floor.

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**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 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** Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep/store only in original container. Store in a dry place. Store in a closed container.

### 7.3. Specific end use(s)

**Specific use(s)**  
Stripping solution.

**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**

Chemical name	European Union	United Kingdom
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 766 mg/m <sup>3</sup> STEL: 500 ppm STEL: 958 mg/m <sup>3</sup>
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>

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		STEL: 1500 ppm STEL: 3620 mg/m <sup>3</sup>
n-Butyl acetate 123-86-4	TWA: 241 mg/m <sup>3</sup> TWA: 50 ppm STEL: 723 mg/m <sup>3</sup> STEL: 150 ppm	TWA: 150 ppm TWA: 724 mg/m <sup>3</sup> STEL: 200 ppm STEL: 966 mg/m <sup>3</sup>
Propylene glycol monomethyl ether 107-98-2	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup> *	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> Sk*
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup> STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup>
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 40.8 mg/m <sup>3</sup> STEL: 20 ppm STEL: 81.6 mg/m <sup>3</sup> *	TWA: 10 ppm TWA: 41 mg/m <sup>3</sup> STEL: 20 ppm STEL: 82 mg/m <sup>3</sup> Sk*
Formic acid 64-18-6	TWA: 5 ppm TWA: 9 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 9.6 mg/m <sup>3</sup> STEL: 15 ppm STEL: 28.8 mg/m <sup>3</sup>

Chemical name	European Union	Ireland	United Kingdom
Acetone 67-64-1	-	50 mg/L (urine - Acetone end of shift)	-
Cyclohexanone 108-94-1	-	8 mg/L (urine - Cyclohexanol end of shift) 80 mg/L (urine - 1,2-Cyclohexanediol end of shift)	2 mmol/mol creatinine urine

**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)			
Dimethyl ether (115-10-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	1894 mg/m <sup>3</sup>	

Acetone (67-64-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Dermal	186 mg/kg bw/d	
Short term Local health effects worker	Inhalation	2420 mg/m <sup>3</sup>	
Long term Systemic health effects worker	Inhalation	1210 mg/m <sup>3</sup>	

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/m <sup>3</sup>	
worker	Inhalation	600 mg/m <sup>3</sup>	

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Short term Systemic health effects			
worker Long term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	600 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	11 mg/kg bw/d	

## Propylene glycol monomethyl ether (107-98-2)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Inhalation	553.5 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	553.5 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	183 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	369 mg/m <sup>3</sup>	

## Cyclohexanone (108-94-1)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	100 mg/m <sup>3</sup>	
worker Short term Systemic health effects	Inhalation	80 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	40 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	80 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	4 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	4 mg/kg bw/d	

## Derived No Effect Level (DNEL)

### Dimethyl ether (115-10-6)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	471 mg/m <sup>3</sup>	

## Acetone (67-64-1)

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Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	200 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	62 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	62 mg/kg bw/d	

## **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/m <sup>3</sup>	
Consumer Short term Systemic health effects	Inhalation	300 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	35.7 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
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	

## **Propylene glycol monomethyl ether (107-98-2)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	78 mg/kg bw/d	
Consumer Long term Systemic health effects	Inhalation	43.9 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Oral	33 mg/kg bw/d	

## **Cyclohexanone (108-94-1)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	20 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	20 mg/kg bw/d	
Consumer	Oral	5 mg/kg bw/d	



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Long term Systemic health effects			
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**Predicted No Effect Concentration (PNEC)** No information available.

<b>Predicted No Effect Concentration (PNEC)</b>	
<b>Dimethyl ether (115-10-6)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

<b>Acetone (67-64-1)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	10.6 mg/l
Freshwater - intermittent	21 mg/l
Marine water	1.06 mg/l
Microorganisms in sewage treatment	100 mg/l
Freshwater sediment	30.4 mg/kg dry weight
Marine water	3.04 mg/kg dry weight
Soil	29.5 mg/kg dry weight

<b>n-Butyl acetate (123-86-4)</b>	
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

<b>Propylene glycol monomethyl ether (107-98-2)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	10 mg/l
Marine water	1 mg/l
Sewage treatment plant	100 mg/l
Freshwater sediment	52.3 mg/kg dry weight
Marine sediment	5.2 mg/kg dry weight
Soil	4.59 mg/kg dry weight

<b>Cyclohexanone (108-94-1)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.0329 mg/l
Marine water	0.00329 mg/l
Freshwater sediment	0.168 mg/kg
Marine sediment	0.0168 mg/kg
Soil	0.0143 mg/kg

## 8.2. Exposure controls

### Engineering controls

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

### Personal protective equipment

#### Eye/face protection

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

#### Hand protection

Wear suitable gloves. Glove thickness > 0.7mm. Butyl rubber. Nitrile rubber. The

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<b>Skin and body protection</b>	breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374
<b>Respiratory protection</b>	Wear appropriate personal protective clothing to prevent skin contact. Ensure adequate respiratory protection during spray applications. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Recommended filter type:</b>	Organic gases and vapours filter conforming to EN 14387. Wear a respirator conforming to EN 140 with Type A filter or better.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Aerosol
<b>Appearance</b>	Aerosol
<b>Colour</b>	Pink
<b>Odour</b>	Ketone.
<b>Odour threshold</b>	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	Not applicable, Aerosol	Not applicable, Aerosol
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	Not applicable, Aerosol	Not applicable, Aerosol
<b>Autoignition temperature</b>	>200 °C	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	Not applicable. Insoluble in water.
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	
<b>Water solubility</b>	Insoluble in water.	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapour pressure</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk Density</b>	No data available	
<b>Liquid Density</b>	0.7666 g/cm <sup>3</sup>	
<b>Relative vapour density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

### 9.2. Other information

<b>Solid content (%)</b>	0	
<b>VOC content</b>	No data available 749.8 g/L	European directive n°2010/75/UE

9.2.1. Information with regards to physical hazard classes  
 Not applicable

9.2.2. Other safety characteristics  
 No information available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 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 Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Incompatible materials Incompatible with oxidising agents.

### 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** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** 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

Based on available data, the classification criteria are not met

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## Numerical measures of toxicity

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

ATEmix (oral)	80,036.00 mg/kg
ATEmix (dermal)	57,354.80 mg/kg
ATEmix (inhalation-dust/mist)	46.00 mg/l
ATEmix (inhalation-vapour)	308.50 mg/l

## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether	-	-	=164000 ppm (Rattus) 4 h
Acetone	=5800 mg/kg (Rattus) 3000 mg/Kg (mouse)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h
n-Butyl acetate	>10650 mg/kg (Rattus)	> 17600 mg/kg (Oryctolagus cuniculus)	=390 ppm (Rattus) 4 h
Propylene glycol monomethyl ether	>3500 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	>7559 ppm (Rattus) 6 h
Diethylene glycol monobutyl ether	=5660 mg/kg (Rattus)	= 2700 mg/kg (Oryctolagus cuniculus)	-
Cyclohexanone	=1535 mg/kg (Rattus)	= 947 mg/kg (Oryctolagus cuniculus)	=8000 ppm (Rattus) 4 h
Formic acid	=1100 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	=7.85 mg/L (Rattus) 4 hr

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

**Skin corrosion/irritation** May cause skin irritation.

n-Butyl acetate (123-86-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal		4 hours	Non-irritant

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

Acetone (67-64-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			irritant

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

Acetone (67-64-1)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser

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

**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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Dimethyl ether 115-10-6	-	LC50: >4.1g/L (96h, Poecilia reticulata)	-	> 4400 mg/L (Daphnia) (NEN 6501)		
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)		
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)		
Propylene glycol monomethyl ether 107-98-2	-	LC50: 4600 - 10000mg/L (96h, Leuciscus idus) LC50: =20.8g/L (96h, Pimephales promelas)	-	EC50: =23300mg/L (48h, Daphnia magna)		
Diethylene glycol	EC50: >100mg/L	LC50:	-	EC50:		

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monobutyl ether 112-34-5	(96h, Desmodemus subspicatus)	=1300mg/L (96h, Lepomis macrochirus)		=2850mg/L (24h, Daphnia magna) EC50: >100mg/L (48h, Daphnia magna)		
Cyclohexanone 108-94-1	EC50: =20mg/L (96h, Chlorella vulgaris)	LC50 96 h 481 - 578 mg/L (Pimephales promelas flow-through)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	EC50: =800mg/L (24h, Daphnia magna)		
Formic acid 64-18-6	EC50: =25mg/L (96h, Desmodemus subspicatus) EC50: =26.9mg/L (72h, Desmodemus subspicatus)	LC50: =175mg/L (24h, Lepomis macrochirus)	EC50 = 46.7 mg/L 17 h	EC50: =120mg/L (48h, Daphnia magna) EC50: 138 - 165.6mg/L (48h, Daphnia magna)		

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Acetone (67-64-1)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	biodegradation	91 % Readily biodegradable

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
Dimethyl ether	-0.18
Acetone	-0.24
n-Butyl acetate	2.3
Propylene glycol monomethyl ether	1
Diethylene glycol monobutyl ether	1
Cyclohexanone	1.05
Formic acid	-1.9

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
Dimethyl ether	The substance is not PBT / vPvB
Acetone	The substance is not PBT / vPvB PBT assessment does

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	not apply
n-Butyl acetate	The substance is not PBT / vPvB PBT assessment does not apply
Propylene glycol monomethyl ether	The substance is not PBT / vPvB
Diethylene glycol monobutyl ether	The substance is not PBT / vPvB PBT assessment does not apply
Cyclohexanone	The substance is not PBT / vPvB PBT assessment does not apply
Formic acid	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

<b>Waste from residues/unused products</b>	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
<b>Waste codes / waste designations according to EWC</b>	16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.
<b>European Waste Catalogue</b>	16 05 04* gases in pressure containers (including halons) containing dangerous substances 15 01 04 metallic packaging
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

### Land transport (ADR/RID)

<b>14.1 UN number or ID number</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols
<b>14.3 Transport hazard class(es)</b>	2
<b>Labels</b>	2.1
<b>14.4 Packing group</b>	Not regulated
<b>Description</b>	UN1950, Aerosols, 2, (D)
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Provisions</b>	190, 327, 344, 625
<b>Classification code</b>	5F
<b>Tunnel restriction code</b>	(D)
<b>Limited quantity (LQ)</b>	1 L

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## IMDG

14.1 UN number or ID number	UN1950
14.2 Proper Shipping Name	Aerosols
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, 2.1
14.5 Marine pollutant	NP
14.6 Special Provisions	63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ)	See SP277
EmS-No	F-D, S-U
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN1950
14.2 Proper Shipping Name	Aerosols, flammable
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, flammable, 2.1
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	A145, A167, A802
Limited quantity (LQ)	30 kg G
ERG Code	10L

## 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, Authorization, 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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Diethylene glycol monobutyl ether	112-34-5	55. 75.

CAS 112-34-5 restricted for use in aerosol products sold to general public. Products for general public with level above 3% should be labeled "Do not use in paint spraying equipment".

### 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)



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## **Dangerous substance category per Seveso Directive (2012/18/EU)**

P3a - FLAMMABLE AEROSOLS

P3b - FLAMMABLE AEROSOLS

## **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

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**

This product contains

Chemical name	Reporting of suspicious transactions, disappearances and thefts	Restricted
Acetone - 67-64-1	X	

## **Regulation (EC) No. 648/2004 (Detergents regulation)**

Labelling for contents according to regulation (EC) No. 648/2004

non-ionic surfactants	< 5%
Formic acid, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT]	

## **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 H-Statements referred to under section 3**

EUH066 - Repeated exposure may cause skin dryness or cracking

H220 - Extremely flammable gas

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

#### **Legend**

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

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Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

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## Indication of changes

**Revision note** SDS sections updated, 15.

**Training Advice** No information available

**Further information** No information available

## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

### 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**