

Revision date: 21 Nov 2023 Version: I3 Print date: 22 Nov 2023

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

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

1.1. Product identifier

Trade name/designation:

ISO-TOP THERMFOAM B1

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

Use of the substance/mixture:

Building and construction work

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ISO- CHEMIE GmbH

Röntgenstraße 12

73431 Aalen

Germany

Telephone: +49 (0)7361 9490-0

Telefax: +49 (0)7361 9490-90

E-mail: info@iso-chemie.de

Website: www.iso-chemie.de

1.4. Emergency telephone number

phone informative specified region safety at work department, , 24h: +49 (0)761 19240, 7.00-16.00 Uhr +49 (0)7361 9490-0 (Only available during office hours.)

SECTION 2: Hazards identification

* **2.1. Classification of the substance or mixture**

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (Inhalation)	
Gases under pressure (<i>Press. Gas (Liq.)</i>)	H280: Contains gas under pressure; may explode if heated.	

* **2.2. Label elements**

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

Hazard pictograms:



GHS02
Flame



GHS08
Health hazard



GHS07
Exclamation mark

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Signal word: Danger

Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure. (Inhalation)

Supplemental hazard information

EUH204	Contains isocyanates. May produce an allergic reaction.
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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....

Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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Additional information:

As from 24 August 2023 adequate training is required before industrial or professional use. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3. Other hazards

Adverse human health effects and symptoms:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

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SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 9016-87-9 EC No.: 618-498-9	4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) ⚠️ Danger Specific concentration limit (SCL) Skin Irrit. 2; H315: C ≥ 5% Eye Irrit. 2; H319: C ≥ 5% Resp. Sens. 1; H334: C ≥ 0.1% STOT SE 3; H335: C ≥ 5%	30 - < 50 %
CAS No.: 1244733-77-4 EC No.: 807-935-0 REACH No.: 01-2119486772-26	Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran Acute Tox. 4 (H302) ⚠️ Warning	10 - < 20 %
CAS No.: 86675-46-9 EC No.: 617-903-6 REACH No.: 01-2119972940-30	Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	10 - < 20 %
CAS No.: 115-10-6 EC No.: 204-065-8 REACH No.: 01-2119472128-37-XXXX	dimethyl ether Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) ⚠️ Danger	2.5 - < 10 %
CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0 REACH No.: 01-2119485395-27	isobutane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) ⚠️ Danger	2.5 - < 10 %
CAS No.: 75-37-6 EC No.: 200-866-1 REACH No.: 01-2119474440-43	1,1-difluoroethane The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 - < 10 %
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119469442-21-XXXX	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) ⚠️ Danger	1 - < 2.5 %
CAS No.: 78-40-0 EC No.: 201-114-5 Index No.: 015-013-00-7 REACH No.: 01-2119492852-28	triethyl phosphate Acute Tox. 4 (H302) ⚠️ Warning	1 - < 2.5 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention. If breathing is irregular or stopped, administer artificial respiration. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. After contact with molten product, cool skin area rapidly with cold water. In case of frostbite, wash with plenty of water; do not remove clothing.

After eye contact:

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not subject to friction.

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Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. First aider: Pay attention to self-protection!

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

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation Asthmatic complaints Respiratory complaints Irritation to respiratory tract Most important symptoms and effects, both acute and delayed : See SECTION 2.1 (classification). Section 11: Toxicological Information

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:

ABC-powder alcohol resistant foam Extinguishing powder Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible

Hazardous combustion products:

In case of fire: Gases/vapours, toxic Health hazard

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Eliminate all ignition sources if safe to do so.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Personal precautions, protective equipment and emergency procedures

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Suitable material for taking up: Sand

Other information:

Disposal: see section 13

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Adequate technical preventive measures Store in a closed container. Collect spillage. Clear spills immediately. Keep in a cool, well-ventilated place.

Fire prevent measures:

flame-resistant Stable under recommended storage and handling conditions.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharge.

Storage class (TRGS 510, Germany): 2B - Aerosol dispensers and lighters

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

Industrial sector specific solutions:

construction industry

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
SI from 4 Dec 2018	4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	① 0.05 mg/m ³ ② 0.05 mg/m ³ ⑤ (als MDI berechnet), (frakcija ki jo je mogoče vdihniti, računati je treba z možnostjo prodiranja skozi kožo) K, Y
TRGS 900 (DE)	4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (als MDI berechnet), (einatembare Fraktion), kann über die Haut aufgenommen werden DFG, H, Sah, Y, 12
CH from 1 Jan 2022	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,910 mg/m ³) ⑤ Tox: Formal
BE	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
CZ from 1 Mar 2020	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 522 ppm (1,000 mg/m ³) ② 1,044 ppm (2,000 mg/m ³)
PL	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 mg/m ³
NO	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 200 ppm (384 mg/m ³) ⑤ E
TRGS 900 (DE)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,900 mg/m ³) ② 8,000 ppm (15,200 mg/m ³) ⑤ DFG, EU
IE	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³) ⑤ IOELV
HTP (FI)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (2,000 mg/m ³)
SE	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 500 ppm (950 mg/m ³) ③ 800 ppm (1,500 mg/m ³)
NPEL (SK)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,910 mg/m ³)
DK from 13 Feb 2021	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³) ② 2,000 ppm (3,840 mg/m ³) ⑤ E
MAK (AT)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	② 2,000 ppm (3,820 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
HR	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
ES	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³) ⑤ VLI
IOELV (EU)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
VRI (FR) from 3 May 2021	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
WEL (GB)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 400 ppm (766 mg/m ³) ② 500 ppm (958 mg/m ³)
SI from 4 Dec 2018	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³) ② 8,000 ppm (15,360 mg/m ³) ⑤ EU1
HU from 7 Feb 2020	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,920 mg/m ³ ⑤ N
NL from 1 Jan 2023	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 495 ppm (950 mg/m ³) ② 781 ppm (1,500 mg/m ³)
CH from 1 Jan 2022	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³) ② 3,200 ppm (7,600 mg/m ³) ⑤ Tox: ZNS
HTP (FI)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³) ② 1,000 ppm (2,400 mg/m ³) ⑤ liite 4
MAK (AT)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./SchichtMomentanwert)
BE from 3 Oct 2018	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	② 980 ppm (2,370 mg/m ³)
TSH (SK) from 1 May 2019	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m ³) ⑤ karc 1A
SI	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)
IE from 21 Aug 2018	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	② 1,000 ppm
ACGIH (US) from 1 Jan 2017	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³) ⑤ DFG
MAK (AT)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³)
CH from 1 Jan 2022	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³) ⑤ Tox: Formal; Messmeth: NIOSH
PL	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,800 mg/m ³
NO	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 500 ppm (900 mg/m ³)
HTP (FI)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 800 ppm (1,500 mg/m ³) ② 1,100 ppm (2,000 mg/m ³) ⑤ liite 4
TRGS 900 (DE)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³) ⑤ DFG
DK	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 2,000 ppm (3,600 mg/m ³)
BE	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³)
SI	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³)
ES from 8 Jun 2023	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
4,4'-Methylendiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	0.05 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
4,4'-Methylendiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	0.025 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
4,4'-Methylendiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	0.1 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	0.05 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	8.2 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	1.45 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	22.6 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	5.6 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	2.91 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	1.04 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	0.52 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	2 mg/kg	① DNEL Consumer ② Acute - oral, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	1.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	4.5 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	0.87 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	0.44 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	1.3 mg/kg	① DNEL Consumer ② Acute - dermal, systemic effects
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6	0.44 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1,894 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	471 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	2,713 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	675 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	9.9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	1.74 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	2 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	1 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	1 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	5 mg/kg	① DNEL Consumer ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	1 mg/L	① PNEC aquatic, freshwater
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	0.1 mg/L	① PNEC aquatic, marine water
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	1 mg/L	① PNEC sewage treatment plant
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	1 mg/kg	① PNEC soil
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	10 mg/L	① PNEC aquatic, intermittent release

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Substance name	PNEC Value	① PNEC type
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	0.32 mg/L	① PNEC aquatic, freshwater
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	0.032 mg/L	① PNEC aquatic, marine water
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	19.1 mg/L	① PNEC sewage treatment plant
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	11.5 mg/kg	① PNEC sediment, freshwater
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	1.15 mg/kg	① PNEC sediment, marine water
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	0.34 mg/kg	① PNEC soil
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	11.6 mg/kg	① PNEC secondary poisoning
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	0.51 mg/L	① PNEC aquatic, intermittent release
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.155 mg/L	① PNEC aquatic, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.016 mg/L	① PNEC aquatic, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	160 mg/L	① PNEC sewage treatment plant
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.681 mg/kg	① PNEC sediment, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.069 mg/kg	① PNEC sediment, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.045 mg/kg	① PNEC soil
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1.549 mg/L	① PNEC aquatic, intermittent release
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.048 mg/L	① PNEC aquatic, freshwater

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Substance name	PNEC Value	① PNEC type
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.005 mg/L	① PNEC aquatic, marine water
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.19 mg/kg	① PNEC sediment, freshwater
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.019 mg/kg	① PNEC sediment, marine water
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.141 mg/kg	① PNEC soil
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1	0.48 mg/L	① PNEC aquatic, intermittent release
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	0.632 mg/L	① PNEC aquatic, freshwater
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	0.063 mg/L	① PNEC aquatic, marine water
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	298.5 mg/L	① PNEC sewage treatment plant
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	5 mg/kg	① PNEC sediment, freshwater
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	0.5 mg/kg	① PNEC sediment, marine water
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	0.64 mg/L	① PNEC soil
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5	9 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection Eye/face protection EN 166 EN 167 EN 168 EN ISO 4007

Skin protection:

Tested protective gloves must be worn In the case of wanting to use the gloves again, clean them before taking off and air them well. EN ISO 374 -1, EN 16523-1, EN 420

Respiratory protection:

Filtering Half-face mask (EN 149) EN 405 EN ISO 136

8.2.3. Environmental exposure controls

Safety, health and environmental regulations specific for the product in question

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: blue

Odour: not determined

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Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Melting point	<i>not applicable</i>		
Freezing point	<i>not applicable</i>		
Initial boiling point and boiling range	-12 °C		
Decomposition temperature	<i>not applicable</i>		
Evaporation rate	<i>not applicable</i>		
Auto-ignition temperature	<i>not applicable</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	< 300 kPa	50 °C	
Vapour density	<i>not applicable</i>		
Density	≈ 1,101 kg/m ³	20 °C	
Relative density	<i>not applicable</i>		
Bulk density	<i>not applicable</i>		
Water solubility	<i>not applicable</i>		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>not applicable</i>		
Kinematic viscosity	<i>not applicable</i>		

* **9.2. Other information**
 No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions. Further information on proper storage: see section 7.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.

10.5. Incompatible materials

Strong alkali Strong acid

10.6. Hazardous decomposition products

Carbon dioxide (CO₂) Carbon monoxide

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures	
ATE (oral):	≈2,506.84 mg/kg Berechnungsmethode
ATE (dermal):	>2,000 mg/kg Berechnungsmethode
ATE (inhalation, dust/mist):	≈23.14 mg/L 4h Berechnungsmethode
Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0	
LD₅₀ oral:	=632 mg/kg (Ratte)
LD₅₀ dermal:	>2,000 mg/kg (Ratte)
LC₅₀ Acute inhalation toxicity (dust/mist):	>7 mg/L 4 h (Ratte)
4,4'-Methyldiphenyldiisocyanat, Isomere und Homologe CAS No.: 9016-87-9 EC No.: 618-498-9	
LD₅₀ oral:	>2,000 mg/kg
LD₅₀ dermal:	>2,000 mg/kg
LC₅₀ Acute inhalation toxicity (dust/mist):	≈11 mg/L ATEi
propane CAS No.: 74-98-6 EC No.: 200-827-9	
LC₅₀ Acute inhalation toxicity (vapour):	>20 mg/L 4 h (Ratte)

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dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8
LD₅₀ oral: >2,000 mg/kg
LD₅₀ dermal: >2,000 mg/kg
LC₅₀ Acute inhalation toxicity (vapour): 308.5 mg/L 4 h (Ratte)
isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LD₅₀ oral: >2,000 mg/kg
LD₅₀ dermal: >2,000 mg/kg
LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L
Polymer with 2-Butyne-1,4-Diol and (Chlormethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated CAS No.: 86675-46-9 EC No.: 617-903-6
LD₅₀ oral: ≈917 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg
LC₅₀ Acute inhalation toxicity (dust/mist): >20 mg/L
1,1-difluoroethane CAS No.: 75-37-6 EC No.: 200-866-1
LC₅₀ Acute inhalation toxicity (gas): >437,500 ppmV 4 h (Ratte) 14 Tage
triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5
LD₅₀ oral: ≈500 mg/kg ATEI
LD₅₀ dermal: >2,000 mg/kg
LC₅₀ Acute inhalation toxicity (dust/mist): >20 mg/L

Acute oral toxicity:

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

Acute dermal toxicity:

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

Suspected of causing cancer.

Reproductive toxicity:

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

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure. Headache Dizziness Nausea Vomiting Impaired consciousness

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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SECTION 12: Ecological information

12.1. Toxicity

Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0
LC₅₀: 51 mg/L (fish, Pimephalis promelas)
EC₅₀: 131 mg/L (crustaceans, Daphnia magna)
EC₅₀: 82 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 32 mg/L (crustaceans, Daphnia magna)
NOEC: 13 mg/L (Algae/water plant)

12.2. Persistence and degradability

Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0
Biodegradation: Yes, slowly
Remark: 14% OECD 301E
propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly
Remark: FBK 13

Biodegradation:

20mg/l 28 Tage 14%

12.3. Bioaccumulative potential

Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0
Log K_{ow}: 2.68
Bioconcentration factor (BCF): < 14 Species: Fisch
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{ow}: 2.86
isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Log K_{ow}: = 2.76
Bioconcentration factor (BCF): = 27

Partition coefficient: n-octanol/water:

not applicable

12.4. Mobility in soil

Volatility Henry : 1244733-77-4: 6E-3 Pa* m³/mol; 75-28-5: 120576,75 Pa* m³/mol; 74-98-6: 71636,78 Pa* m³/mol

Absorption Koc : 1244733-77-4: 324,2; 75-28-5: 35; 74-986: 460;

12.5. Results of PBT and vPvB assessment

Reaktionsprodukte von Phosphoryltrichlorid und 2-Methyloxiran CAS No.: 1244733-77-4 EC No.: 807-935-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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*: Evidence for disposal must be provided.

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Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity
HP 7	carcinogenic
HP 13	Sensitising

Remark:

Do not allow to enter into surface water or drains.

Waste code packaging

Remark:

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.





Appropriate disposal / Package:

Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190,327,344,625	Limited quantity (LQ): 1 L	Special Provisions: 63,959,190,277,327,344	Limited quantity (LQ): 1 L
Limited quantity (LQ): 1 L	Classification code: -	Limited quantity (LQ): 1 L	
Classification code: -		EmS-No.: F-D, S-U	
Tunnel restriction code: (D)			

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

is subject to the restrictions in Annex XVII of Regulation (EC) No. 1907/2006: diphenylmethane diisocyanate, isomers and homologues

Restrictions on use:

diphenylmethane diisocyanate, isomers and homologues Exempted uses:Decorative effect coatings, aerosol for entertainment or decoration purposes.

Other regulations (EU):

This product is not assigned to a hazard category.

Notification number according to 'Giftinformationsverordnung (ChemGiftInfoVO)':Hazardous Substances Ordinance (GefStoffV)Chemical Ozone Layer Ordinance (ChemOzonSchichtV)§ 2 ChemVerbotsV § 3 ChemVerbotsV § 4


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ChemVerbotsV Annex Chemikalien-Verbotsverordnung (ChemVerbotsV) German Chemicals Prohibition Ordinance (ChemVerbotsV) Aerosol Directive (75/324/) Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 17.96 weight-%

15.1.2. National regulations

 **[DE] National regulations**

Restrictions of occupation

is subject to the restrictions in Annex XVII of Regulation (EC) No. 1907/2006 Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data

<http://echa.europa.eu> <http://eur-lex.europa.de>

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (Inhalation)	
Gases under pressure (<i>Press. Gas (Liq.)</i>)	H280: Contains gas under pressure; may explode if heated.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6. Training advice

Regular employee training is required by law when working with hazardous substances.

16.7. Additional information

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* Data changed compared with the previous version.