

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 15 Sept 2023

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Techno Primer 400ml

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

1.1. Product identifier

Trade name/designation:

Techno Primer 400ml

Article No.:

T122005

UFI:

07W6-NWVC-X30J-Y1NM

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

Use of the substance/mixture:

Primers

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:

Reaction mass of ethylbenzene and xylene

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Supplemental hazard information	
EUH208	Contains p-tert-butylphenyl 1-(2,3-epoxy)propyl ether. May produce an allergic reaction.

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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

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

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

Adverse environmental effects:

This mixture does not contain substances classified as PBT or vPvB substances.

The product does not contain any substances with endocrine-disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

Percentage of blowing agents: 38,00%

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 905-588-0 REACH No.: 01-2119488216-32	Reaction mass of ethylbenzene and xylene Acute Tox. 4 (H312, H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	50 - ≤ 55 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	15 - ≤ 17.5 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	14 - ≤ 15.5 Vol-%
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	5 - ≤ 6.5 Vol-%
CAS No.: 141-78-6 EC No.: 205-500-4 Index No.: 607-022-00-5 REACH No.: 01-2119475103-46	ethyl acetate Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger	5 - ≤ 6.5 Vol-%
CAS No.: 3101-60-8 EC No.: 221-453-2	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether Aquatic Chronic 2 (H411), Skin Sens. 1 (H317) Warning	0.3 - ≤ 0.35 Vol-%
CAS No.: 67-66-3 EC No.: 200-663-8 Index No.: 602-006-00-4	chloroform Acute Tox. 3 (H331), Acute Tox. 4 (H302), Carc. 2 (H351), Eye Irrit. 2 (H319), Repr. 2 (H361d), STOT RE 1 (H372), Skin Irrit. 2 (H315) Danger	0 - ≤ 0.05 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

A doctor must be consulted immediately. The person concerned shall be carried outside, away from the scene of the accident. If breathing stops, artificial respiration shall be given.

In case of skin contact:

Soiled, soaked clothing must be taken off. One must take a shower immediately. A doctor must be consulted immediately.

After eye contact:

Any contact lenses must be removed. One must immediately and extensively wash with water for at least 15 minutes, opening the eyelids well. A doctor must be consulted immediately.

Following ingestion:

A doctor must be consulted immediately. Do NOT induce vomiting. No medicine may be administered that has not been prescribed by a doctor.

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

There is no known specific information on symptoms and effects caused by this product.

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

No further details.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, Foam, Extinguishing powder, Water mist

Unsuitable extinguishing media:

No information available.

5.2. Special hazards arising from the substance or mixture

If overheated, there is a risk that aerosol containers will deform, burst and be hurled a considerable distance. Before approaching the fire, one must put on a protective helmet. Avoid inhalation of combustion products.

5.3. Advice for firefighters

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances. Complete fire protective clothing shall be worn at all times. Extinguishing water that is not allowed to enter the sewage pipes shall be collected. The water used for extinguishing and the fire residues shall be taken up in accordance with the regulations in force.

Personal protection:

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Any source of ignition (cigarettes, flames, sparks, etc.) or heat must be disposed of from the area where the product has been spilled. Remove persons without protective clothing from the site. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Prevent the product from entering waste water, surface water, ground water.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb the spilled product with inert absorbent material. Ensure adequate ventilation of the affected area. Contaminated material must be disposed of in accordance with the regulations under point 13.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Accumulation of electrostatic charges must be avoided. It must not be sprayed into flames or onto glowing bodies. Vapours can ignite with an explosion, so prevent accumulation by keeping doors and windows open with a draught. Do not eat, drink or smoke when using the product. Do not inhale aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Do not expose to temperatures exceeding 50°C. Protect from heat and direct sunlight.

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

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7.3. Specific end use(s)

Recommendation:

No further details.

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
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)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
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)
MAK (AT)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³)
MAK (AT) from 25 Sept 2018	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³)
MAK (AT) from 2 Sept 2020	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	② 400 ppm (1,468 mg/m ³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU) from 21 Feb 2017	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)
IOELV (EU)	chloroform CAS No.: 67-66-3 EC No.: 200-663-8	① 2 ppm (10 mg/m ³) ⑤ (may be absorbed through the skin)
MAK (AT) from 2 Sept 2020	chloroform CAS No.: 67-66-3 EC No.: 200-663-8	① 2 ppm (10 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) III A2, d, H

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
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	14.8 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	289 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	108 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	1.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	63 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	37 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	4.5 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	19.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	19.6 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	19.6 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	19.6 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	5.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	5.6 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	2.5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	333 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	2.5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.94 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	0.327 mg/L	① PNEC aquatic, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	6.58 mg/L	① PNEC sewage treatment plant
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, freshwater
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	2.31 mg/kg	① PNEC soil
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.24 mg/L	① PNEC aquatic, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.024 mg/L	① PNEC aquatic, marine water
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.15 mg/kg	① PNEC sediment, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.115 mg/kg	① PNEC sediment, marine water
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.148 mg/kg	① PNEC soil
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.65 mg/L	① PNEC aquatic, intermittent release

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Substance name	PNEC Value	① PNEC type
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	0.0075 mg/L	① PNEC aquatic, freshwater
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	0.00075 mg/L	① PNEC aquatic, marine water
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	100 mg/L	① PNEC sewage treatment plant
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	33.54 mg/kg bw/day	① PNEC sediment, freshwater
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	3,354 mg/kg bw/day	① PNEC sediment, marine water
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	11.4 mg/kg	① PNEC soil
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	0.075 mg/L	① PNEC aquatic, intermittent release
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.146 mg/L	① PNEC aquatic, freshwater
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.015 mg/L	① PNEC aquatic, marine water
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.048 mg/L	① PNEC sewage treatment plant
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.45 mg/kg	① PNEC sediment, freshwater
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.09 mg/kg	① PNEC sediment, marine water
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.56 mg/kg	① PNEC soil
chloroform CAS No.: 67-66-3 EC No.: 200-663-8	0.133 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. The personal protective equipment must be CE marked to indicate its suitability for the applicable regulations.

Emergency stop showers with face-eye-rinsing are to be provided.

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Exposure levels must be kept as low as possible to avoid heavy deposition in the body. Personal protective devices shall be handled in such a way that the highest possible protection is assured (e.g. reduction of replacement times).

8.2.2. Personal protection equipment

Eye/face protection:

The use of penetration-proof goggles is recommended (ref. standard EN 166).

In case of danger from exposure to splashes during the activities carried out, ensure adequate protection of mucous membranes (mouth, nose, eyes) to avoid accidental ingestion.

Skin protection:

Hand protection: Not required.

Skin protection:

Work clothing with long sleeves and category III accident protection footwear must be worn (see Regulation 2016/425 and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

Respiratory protection:

If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is recommended to wear a mask with filter type AX in combination with a filter type P (ref. standard EN 14387).

If the technical measures taken are not sufficient to reduce the exposure of the worker to the thresholds considered, the use of respiratory protective devices is necessary. The protection provided by the mask is limited in any case.

8.2.3. Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: brown

Odour: solvent-like

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Initial boiling point and boiling range	< 0 °C		① ASTM D 1120
Flash point	< 0 °C		① ASTM D 93
Evaporation rate	<i>No data available</i>		
Upper/lower flammability or explosive limits	<i>No data available</i>		
Vapour pressure	<i>No data available</i>		
Bulk density	<i>not applicable</i>		
Water solubility	practically insoluble	20 °C	
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Self ignition temperature	> 250 °C		

particle characteristics:

not applicable

9.2. Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No special reaction hazards with other substances under normal conditions of use.

Ethyl acetate: Slow decomposition to acetic acid and ethanol under the influence of light, air and water.

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.

Ethyl acetate: Explosion hazard in contact with: Alkali metals, hydrides, oleum. May react violently with: Fluorine, strong oxidising agents, chlorosulfonic acid, potassium tert-butanolate. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid heating.

Ethyl acetate: Avoid exposure to: Light, Heat sources, open flames

10.5. Incompatible materials

Strong reducing and oxidising agents, strong bases and acids, materials at high temperatures.

Ethyl acetate: Incompatible with: Acids, Bases, strong oxidants, Aluminium, Nitrate, Chlorosulfonic acid.

Incompatible materials: plastic

10.6. Hazardous decomposition products

No further relevant information available.

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 (dermal): 1,240 mg/kg	
ATE (inhalation, dust/mist): 1.7 mg/L	
Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
LD₅₀ oral: >3,523 mg/kg (Rat)	
LD₅₀ dermal: >2,000 mg/kg (Rabbit)	
LC₅₀ Acute inhalation toxicity (gas): 27.571 ppmV 4 h (Rat)	
propane	CAS No.: 74-98-6 EC No.: 200-827-9
LD₅₀ oral: 5,840 mg/kg (Rat)	
LD₅₀ dermal: 13,900 mg/kg (Rabbit)	
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)	
LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)	
butane	CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀ Acute inhalation toxicity (gas): 658 ppmV (Rat)	
isobutane	CAS No.: 75-28-5 EC No.: 200-857-2
LD₅₀ oral: >15,000 mg/kg	
LD₅₀ dermal: >5,000 mg/kg	
LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/L	
ethyl acetate	CAS No.: 141-78-6 EC No.: 205-500-4
LD₅₀ oral: >4,100 mg/kg (Rat)	
LD₅₀ dermal: >18,000 mg/kg (Rabbit)	
LC₅₀ Acute inhalation toxicity (vapour): 37 mg/L 4 h	
LC₅₀ Acute inhalation toxicity (dust/mist): 22.5 mg/L 6 h (Rat)	

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p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
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LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

chloroform CAS No.: 67-66-3 EC No.: 200-663-8
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LD₅₀ oral: 908 mg/kg (Rat)
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LD₅₀ dermal: >3,980 mg/kg (Rabbit)
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Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause allergic reactions. (p-tert-butylphenyl 1-(2,3-epoxy)propyl ether)

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 respiratory irritation.

STOT-repeated exposure:

May cause damage to organs.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Reaction mass of ethylbenzene and xylene EC No.: 905-588-0

LC₅₀: 8.9 - 16.4 mg/L 4 d (fish, Pimephales promelas)

EC₅₀: 3.2 - 9.5 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: 0.44 mg/L 3 d (Algae/water plant)
--

LC₅₀: 2.6 mg/L 4 d (fish, Oncorhynchus mykiss)
--

EC₅₀: 2.2 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
--

NOEC: >1.39 mg/L (fish, Oncorhynchus kisutch)
--

NOEC: 0.74 mg/L (crustaceans, Ceriodaphnia dubia)
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propane CAS No.: 74-98-6 EC No.: 200-827-9
LC₅₀ : 9,640 mg/L 4 d (fish, <i>Pimephales promelas</i>)
LC₅₀ : 0.41 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : >100 mg/L (Algae/water plant, Bacteria)
EC₅₀ : 0.17 mg/L 3 d (Algae/water plant, <i>Selenastrum capricornutum</i>)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i>)
NOEC : 0.017 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant)
LOEC : 1,000 mg/L (Algae/water plant, Algae)
LOEC : 1,000 mg/L (Algae/water plant, Alge)
butane CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i> sp.)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant)
isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LC₅₀ : 91.42 mg/L 4 d (fish, Fish, no other information)
LC₅₀ : 100 mg/L 4 d (fish, <i>Danio rerio</i>)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i> sp.)
EC₅₀ : 1,000 mg/L 2 d (fish, <i>Daphnia magna</i>)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae)
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4
LC₅₀ : 230 mg/L 4 d (fish, <i>Pimephales promelas</i>)
EC₅₀ : 260 mg/L 2 d (crustaceans, <i>Daphnia</i>)
NOEC : 2.4 mg/L (crustaceans, <i>Daphnia</i>)
NOEC : >100 mg/L 3 d (Algae/water plant, <i>Scenedesmus subcaticatus</i>)
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
LC₅₀ : 7.5 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) OCSE 203
EC₅₀ : 67.9 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OCSE 202
chloroform CAS No.: 67-66-3 EC No.: 200-663-8
LC₅₀ : 18.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)
EC₅₀ : 152.8 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)
NOEC : 0.151 mg/L (fish, <i>Oryzias latipes</i>)
NOEC : 6.3 mg/L (crustaceans, <i>Daphnia magna</i>)

Assessment/classification:

No further relevant information available.

12.2. Persistence and degradability

propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly
butane CAS No.: 106-97-8 EC No.: 203-448-7
Biodegradation: Yes, rapidly
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4
Biodegradation: Yes, rapidly
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
Biodegradation: Yes, slowly

Additional information:

No further relevant information available.

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12.3. Bioaccumulative potential

Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
Log K_{OW}:	3.16
Bioconcentration factor (BCF):	29
propane	CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}:	1.09
butane	CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{OW}:	1.09
isobutane	CAS No.: 75-28-5 EC No.: 200-857-2
Log K_{OW}:	1.09
ethyl acetate	CAS No.: 141-78-6 EC No.: 205-500-4
Log K_{OW}:	0.68
Bioconcentration factor (BCF):	30
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	CAS No.: 3101-60-8 EC No.: 221-453-2
Log K_{OW}:	1.97

Partition coefficient: n-octanol/water:
not applicable

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
Results of PBT and vPvB assessment:	—
propane	CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment:	—
butane	CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment:	—
isobutane	CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment:	—
ethyl acetate	CAS No.: 141-78-6 EC No.: 205-500-4
Results of PBT and vPvB assessment:	—
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	CAS No.: 3101-60-8 EC No.: 221-453-2
Results of PBT and vPvB assessment:	—
chloroform	CAS No.: 67-66-3 EC No.: 200-663-8
Results of PBT and vPvB assessment:	—

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages $\geq 0.1\%$.

12.6. Endocrine disrupting properties

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

12.7. Other adverse effects

No further details.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

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Waste treatment options

Appropriate disposal / Product:

Reuse if possible. Product residues are to be considered as hazardous waste. The hazardousness of the waste partially containing this product must be evaluated on the basis of the legal provisions in force. Disposal must be entrusted to a company authorised for waste management, taking into account national and, where applicable, local regulations.





Appropriate disposal / Package:

Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

13.2. Additional information

The transport of the waste may be subject to ADR.

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	AEROSOLS	AEROSOLS	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 Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D)	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U	Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 kg IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 kg

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006

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Product:
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Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas Regulation (EU) 2019/1148 (marketing and use of explosives precursors)

Restricted explosives precursor The acquisition, transfer, possession or use by members of the general public of the restricted explosives precursor in question shall be subject to a restriction in accordance with Article 5(1) and (3). Restricted explosives precursors shall not be made available to, transferred to, possessed by or used by members of the general public. The acquisition, transfer, possession or use of the regulated explosives precursor in question by members of the general public shall be subject to reporting requirements in accordance with Article 9. All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

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

Volatile organic compounds (VOC) content in percent by weight: 98.78 Vol-%

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

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
ASTM	American Society for Testing and Materials
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
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

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SCL Specific concentration limit
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

No data available

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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure.	

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

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or

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completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.