

Rudolf Hensel GmbH
21039 Börnsen

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

1.1 Product identifier

HOLZGRUND SB

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

1.2.1 Relevant uses

Adhesion mediator

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Rudolf Hensel GmbH
Lauenburger Landstr. 11
21039 Börnsen / GERMANY
Phone +49 (0)40-72 10 62 10
Fax +49 (0)40-72 10 62 52
Homepage www.rudolf-hensel.de
E-mail info@rudolf-hensel.de

Address enquiries to

Technical information info@rudolf-hensel.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 3: H226 Flammable liquid and vapour.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H335 May cause respiratory irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Hazard pictograms



Signal word

WARNING

Contains:

1-methoxy-2-propanol

Butan-2-ol

Reaction mass of ethylbenzene and xylene

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours / spray.

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

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P273 Avoid release to the environment.

P312 Call a POISON CENTER / doctor if you feel unwell.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

Contains: 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-Methylenebis(cyclohexylamine). EUH208 May produce an allergic reaction.

2.3 Other hazards

Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
40 - 60	1-methoxy-2-propanol
	CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
10 - < 25	Butan-2-ol
	CAS: 78-92-2, EINECS/ELINCS: 201-158-5, EU-INDEX: 603-004-00-6, Reg-No.: 01-2119475146-36-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Eye Irrit. 2: H319 - STOT SE 3: H335 - STOT SE 3: H336
5 - 15	Reaction mass of ethylbenzene and xylene
	EINECS/ELINCS: 905-588-0, Reg-No.: 01-2119488216-32-XXXX, 01-2119486136-34-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H312 H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - STOT RE 2: H373
5 - 15	Hydrocarbons, C9, aromatics
	CAS: 128601-23-0, EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H335 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - - STOT SE 3: H336
< 0,25	3-Aminomethyl-3,5,5-trimethylcyclohexylamine
	CAS: 2855-13-2, EINECS/ELINCS: 220-666-8, EU-INDEX: 612-067-00-9, Reg-No.: 01-2119514687-32-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Acute Tox. 4: H312 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412
< 0,25	4,4'-Methylenebis(cyclohexylamine)
	CAS: 1761-71-3, EINECS/ELINCS: 217-168-8, Reg-No.: 01-2119514687-32-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1B: H317 - STOT RE 2: H373

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Irritant effects
Drowsiness
Vertigo

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).

Provide suitable vacuuming at the processing area.

Use solvent-resistant equipment.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Keep away from all sources of ignition - Refrain from smoking.

Use explosion-proofed equipment/fittings and non-sparking tools.

Ignitable mixtures can be formed in the empty container.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

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7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Keep only in original container.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C9, aromatics
CAS: 128601-23-0, EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX
Long-term exposure: 100 mg/m ³
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Long-term exposure: 100 ppm, 375 mg/m ³ , Sk
Short-term exposure (15-minute): 150 ppm, 560 mg/m ³
Butan-2-ol
CAS: 78-92-2, EINECS/ELINCS: 201-158-5, EU-INDEX: 603-004-00-6, Reg-No.: 01-2119475146-36-XXXX
Long-term exposure: 100 ppm, 308 mg/m ³
Short-term exposure (15-minute): 150 ppm, 462 mg/m ³
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4
Long-term exposure: 100 ppm, 441 mg/m ³ , Sk
Short-term exposure (15-minute): 125 ppm, 552 mg/m ³
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Long-term exposure: 50 ppm, 220 mg/m ³ , Sk, BMGV
Short-term exposure (15-minute): 100 ppm, 441 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Eight hours: 100 ppm, 375 mg/m ³ , H
Short-term (15-minute): 150 ppm, 568 mg/m ³
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4
Eight hours: 100 ppm, 442 mg/m ³ , H
Short-term (15-minute): 200 ppm, 884 mg/m ³
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Eight hours: 50 ppm, 221 mg/m ³ , H
Short-term (15-minute): 100 ppm, 442 mg/m ³

DNEL

Substance
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
Industrial, inhalative, Long-term - systemic effects: 150 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 25 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 32 mg/m ³ .
general population, oral, Long-term - systemic effects: 11 mg/kg bw/day.
Reaction mass of ethylbenzene and xylene

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Industrial, inhalative (vapor), Long-term - systemic effects: 221 mg/m ³ .
Industrial, inhalative (vapor), Acute - systemic effects: 442 mg/m ³ .
Industrial, inhalative (vapor), Long-term - local effects: 221 mg/m ³ .
Industrial, inhalative (vapor), Acute - local effects: 442 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 212 mg/kg bw/day.
general population, inhalative (vapor), Long-term - systemic effects: 65,3 mg/m ³ .
general population, dermal, Acute - local effects: 125 mg/kg bw/day.
general population, inhalative (vapor), Acute - local effects: 260 mg/m ³ .
general population, inhalative (vapor), Acute - systemic effects: 260 mg/m ³ .
general population, oral, Long-term - systemic effects: 12,5 mg/kg bw/day.
general population, inhalative (vapor), Long-term - local effects: 65,3 mg/m ³ .
1-methoxy-2-propanol, CAS: 107-98-2
Industrial, dermal, Long-term - systemic effects: 183 mg/kg bw/day.
Industrial, inhalative (vapor), Acute - systemic effects: 553,5 mg/m ³ .
Industrial, inhalative (vapor), Long-term - systemic effects: 369 mg/m ³ .
Industrial, inhalative (vapor), Long-term - local effects: 553,5 mg/m ³ .
general population, oral, Long-term - systemic effects: 33 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 78 mg/kg bw/day.
general population, inhalative (vapor), Long-term - systemic effects: 43,9 mg/m ³ .
4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
Industrial, inhalative (vapor), Long-term - systemic effects: 1 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 0.1 mg/kg bw/day.
general population, inhalative (vapor), Long-term - systemic effects: 0,21 mg/m ³ .
general population, dermal, Long-term - systemic effects: 0,06 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,06 mg/kg bw/day.
Butan-2-ol, CAS: 78-92-2
Industrial, inhalative, Long-term - systemic effects: 600 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 405 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 15 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 213 mg/m ³ .
general population, dermal, Long-term - systemic effects: 203 mg/kg bw/day.
3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
Industrial, inhalative, Long-term - local effects: 0,073 mg/m ³ .
general population, oral, Long-term - local effects: 0,526 mg/kg bw/day.

PNEC

Substance
Reaction mass of ethylbenzene and xylene
freshwater, 0,327 mg/L.
soil, 2,31 mg/kg soil dw.
sediment (seawater), 12,46 mg/kg sediment dw.
sediment (freshwater), 12,46 mg/kg sediment dw.
sewage treatment plants (STP), 6,58 mg/L.
seawater, 0,327 mg/L.
1-methoxy-2-propanol, CAS: 107-98-2
sediment (seawater), 5,2 mg/kg sediment dw.
sediment (freshwater), 52,3 mg/kg sediment dw.
freshwater, 10 mg/L.
sewage treatment plants (STP), 100 mg/L.
soil, 4,59 mg/kg.
seawater, 1 mg/L.

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4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
soil, 27,2 mg/kg dwt.
sediment (seawater), 13,7 mg/kg dwt.
sediment (freshwater), 137 mg/kg dwt.
sewage treatment plants (STP), 3,2 mg/l.
seawater, 0,008 mg/l.
freshwater, 0,08 mg/l.
Butan-2-ol, CAS: 78-92-2
freshwater, 47,1 mg/L.
seawater, 47,1 mg/L.
sewage treatment plants (STP), 761 mg/L.
sediment (freshwater), 196,19 mg/kg sediment dw.
sediment (seawater), 196,19 mg/kg sediment dw.
soil, 11,58 mg/kg soil dw.
oral (food), 1 000 mg/kg food.
3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
sewage treatment plants (STP), 3,18 mg/l.
freshwater, 0,06 mg/l.
seawater, 0,006 mg/l.
sediment (seawater), 0,5784 mg/l.
soil, 1,121 mg/kg dwt.
sediment (freshwater), 5,784 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	For short-term contact: 0,4mm Butyl rubber, >120 min (EN 374-1/-2/-3). 0,4mm Nitrile rubber, >480 min (EN 374-1/-2/-3). In full contact: 0,4mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellowish
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 100
Flash point [°C]	30
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	0,92 - 0.98 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	25 mm²/sec (40°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with oxidizing agents.
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, >2000 mg/kg.
ATE-mix, inhalation (vapour), >20 mg/l 4h.
ATE-mix, oral, >2000 mg/kg.
Substance
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
LD50, dermal, Rabbit: > 3160 mg/kg (OECD 402).
LD50, oral, Rat: 3592 mg/kg (OECD 401).
Reaction mass of ethylbenzene and xylene
LD50, dermal, Rabbit: 12126 mg/kg.
LD50, oral, Rat: 3523 - 4000 mg/kg.
LC50, inhalation (vapour), Rat: 6350 - 6700 ppm 4h.
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: 4016 mg/kg.
LC50, inhalation (vapour), Rat: 27,596 mg/l 6 h.
4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
LD50, dermal, Rabbit: 2110 mg/kg.
LD50, oral, Rat: 380 mg/kg.
Butan-2-ol, CAS: 78-92-2
LD50, oral, Rat: 2054 mg/kg.
LD50, dermal, Rat: >2000 mg/kg.
LC50, inhalation (vapour), Rat: 49 mg/l (4h).
LC50, inhalativ (gas), Rat: 8000 ppm (4h).
3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
LD50, oral, Rat (male): 1030 mg/kg.
LD50, dermal, Rat: 1840 mg/kg.
LD50, dermal, Rat (male): >2000 mg/kg.
LC50, inhalativ (dust), Rat: >5,01 mg/l (4h).

Serious eye damage/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Skin corrosion/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.
May cause respiratory irritation.
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

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Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Aspiration hazard	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
General remarks	Based on the available information, the classification criteria are not fulfilled. On basis of test data
	none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
EL50, (48h), Daphnia magna: 3,2 mg/l (OECD 202).
EL50, (72h), Pseudokirchneriella subcapitata: 2,6 - 2,9 mg/l (Lit.).
LL50, (96h), Oncorhynchus mykiss: 9,2 mg/l (Lit.).
Reaction mass of ethylbenzene and xylene
LC50, (24h), Daphnia magna: 1 mg/l OECD 202.
LC50, (96h), Oncorhynchus mykiss: 2,6 mg/l OECD 203.
EC50, (72h), Selenastrum capricornutum: 2,2 mg/l OECD 201.
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Leuciscus idus: 6812 mg/L.
EC50, (48h), Daphnia magna: 23300 mg/L.
ErC50, (168h), Pseudokirchneriella subcapitata: > 1000 mg/L.
4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
LC50, (96h), Leuciscus idus: 68 mg/l.
EC50, (72h), Algae: 141 mg/l - 200 mg/l.
EC50, (48h), Daphnia magna: 7,07 mg/l.
NOEC, (21d), fish: >1 mg/l.
NOEC, (21d), Daphnia magna: 4 mg/l.
Butan-2-ol, CAS: 78-92-2
LC50, (96h), Pimephales promelas: 3670 mg/l.
EC50, (48h), Daphnia magna: 4227 mg/l.
3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
LC50, (96h), fish: 110 mg/l.
EC50, (48h), Daphnia magna: 23 mg/l.
NOEC, (21d), Daphnia magna: 3 mg/l.
ErC50, (72h), Algae: >50 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

080111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to
ADR/RID 1263

Inland navigation (ADN) 1263

Marine transport in accordance with
IMDG 1263

Air transport in accordance with IATA 1263

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14.2 UN proper shipping name

Transport by land according to ADR/RID Paint

- Classification Code F1

- Label



- ADR LQ 5 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN) Paint

- Classification Code F1

- Label



Marine transport in accordance with IMDG Paint

- EMS F-E, S-E

- Label



- IMDG LQ 5 I

Air transport in accordance with IATA Paint

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	>= 80%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H315 Causes skin irritation.
H312+H332 Harmful in contact with skin or if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H312 Harmful in contact with skin.
H373 May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H226 Flammable liquid and vapour.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 3 been added: Reaction mass of ethylbenzene and xylene
SECTION 3 deleted: Xylene, mixture of isomers
SECTION 2 been added: If swallowed or in the event of vomiting, risk of product entering the lungs.
SECTION 4 been added: If swallowed or in the event of vomiting, risk of product entering the lungs.
SECTION 8 been added: Viton, >480 min (EN 374-1/-2/-3).
SECTION 8 been added: In full contact:
SECTION 8 been added: Nitrile rubber, >480 min (EN 374-1/-2/-3).
SECTION 8 been added: For short-term contact:
SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.
SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.

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