

SAFETY DATA SHEET

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

Revision date: 29 Oct 2021

Print date: 2 Nov 2021

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Mabanol Drosselklappenreiniger

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

* **1.1. Product identifier**

Trade name/designation:

Mabanol Drosselklappenreiniger

Other means of identification:

Mabanol Throttle Body Cleaner

UFI:

MN0S-88YD-MJ7G-R82J

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

Use of the substance/mixture:

Cleaning agent

1.3. Details of the supplier of the safety data sheet

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

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

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.	
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-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
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:

toluene; xylene; ethylbenzene; acetone

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure. (...)

Supplemental hazard information: -

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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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2.3. Other hazards

Other adverse effects:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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.: 67-64-1 EC No.: 200-662-2	acetone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	25 - < 50 weight-%
CAS No.: 123-42-2 EC No.: 204-626-7 REACH No.: 01-2119473975-21	4-hydroxy-4-methylpentan-2-one, diacetone alcohol Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT SE 3 (H335) Warning	25 - < 50 weight-%
CAS No.: 1330-20-7 EC No.: 215-535-7	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	25 - < 50 weight-%
CAS No.: 100-41-4 EC No.: 202-849-4	ethylbenzene Acute Tox. 4 (H332), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373) Danger	5 - < 10 weight-%
CAS No.: 124-38-9 EC No.: 204-696-9	carbon dioxide Press. Gas (Liq.) (H280) Warning	5 - < 10 weight-%
CAS No.: 108-88-3 EC No.: 203-625-9	toluene Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), Repr. 2 (H361d***), STOT RE 2 (H373**), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	0.1 - ≤ 1 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache. Nausea. Dizziness. Causes skin irritation.

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂). Foam. Extinguishing powder. Water mist.

Unsuitable extinguishing media:

Full water jet.

* 5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. aldehydes. carbon black.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely.

5.4. Additional information

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

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment.

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. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Observe instructions for use. Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wear suitable protective clothing. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Hints on storage assembly:

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Food and feedingstuffs.

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

Further information on storage conditions:

Protect against: Frost. Protect from direct sunlight. Store in a cool dry place.

7.3. Specific end use(s)

No data available

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
IOELV (EU)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m ³)
TRGS 900 (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m ³) ② 1,000 ppm (2,400 mg/m ³)
TRGS 900 (DE)	4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	① 20 ppm (96 mg/m ³) ② 40 ppm (192 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IOELV (EU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (440 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)

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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)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (88 mg/m ³) ② 40 ppm (176 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IOELV (EU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m ³)
TRGS 900 (DE)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,100 mg/m ³) ② 10,000 ppm (18,200 mg/m ³)
TRGS 900 (DE)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (190 mg/m ³) ② 100 ppm (380 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IOELV (EU)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m ³) ② 100 ppm (384 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
BAT (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	2,000 mg/L	① Methylhippur-(Tolur-)säure (alle Isomere) ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	250 mg/g Creatinin	① Mandelsäure + Phenylglyoxylsäure ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	1.5 mg/L	① o-Kresol ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
TRGS 903 (DE)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	0.6 mg/L	① Toluol ② Blut ③ unmittelbar nach Exposition
TRGS 903 (DE)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	75 µg/L	① Toluol ② Urin ③ Expositionsende bzw. Schichtende

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8.1.3. DNEL-/PNEC-values

No data available

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374). Suitable material: NBR (Nitrile rubber).

Breakthrough time::480 min. Thickness of the glove material: 0,45 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wear suitable protective clothing.

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Combination filtering device (DIN EN 141).

Filtering device with filter or ventilator filtering device of type: A.

Observe the wear time limits as specified by the manufacturer.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: colourless

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	56 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	-17 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	0.9 - 14.3 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.8625 g/cm ³	20 °C	DIN 51757	
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

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9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). aldehydes. carbon black. Gases/vapours, toxic.

SECTION 11: Toxicological information

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

Substance name	Toxicological information
acetone CAS No.: 67-64-1 EC No.: 200-662-2	LD₅₀ oral: 5,800 mg/kg (Rat) LD₅₀ dermal: 20,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 76 mg/l 4 h (Rat)
4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	LD₅₀ oral: 3,002 mg/kg (Rat) LD₅₀ dermal: 13,630 mg/kg (Rabbit)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	LD₅₀ oral: 4,300 mg/kg (Rat) LD₅₀ dermal: 1,700 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 21.7 mg/l 4 h (Rat)
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	LD₅₀ oral: 3,500 mg/kg (Rat) LD₅₀ dermal: 15,400 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 17.2 mg/l (Rat)
toluene CAS No.: 108-88-3 EC No.: 203-625-9	LD₅₀ oral: 12,200 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 49 mg/l (Rat)

Acute oral toxicity:

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

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Acute dermal toxicity:

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

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

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

No indication of human carcinogenicity.

Reproductive toxicity:

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

No indications of human reproductive toxicity exist.

STOT-single exposure:

May cause respiratory irritation. (4-hydroxy-4-methylpentan-2-one, diacetone alcohol; xylene)

May cause drowsiness or dizziness. (Acetone)

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure. (xylene)

Aspiration hazard:

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

Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* 11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

Substance name	Toxicological information
acetone CAS No.: 67-64-1 EC No.: 200-662-2	LC₅₀ : 5,540 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) EC₅₀ : 6,100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	LC₅₀ : >100 mg/l 4 d (fish, Oryzias latipes (Ricefish)) ErC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀ : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) NOEC : 1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOEC : 100 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	LC₅₀ : 4.2 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >100 mg/l (Selenastrum capricornutum) EC₅₀ : 1.8 - 2.9 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))

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Substance name	Toxicological information
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	ErC ₅₀ : 3.6 mg/l 4 d (Algae/water plant)
toluene CAS No.: 108-88-3 EC No.: 203-625-9	LC ₅₀ : 13 mg/l 4 d (fish, Carassius auratus (goldfish)) ErC ₅₀ : 12.5 mg/l 3 d (Algae/water plant)

* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	Yes, rapidly	Readily biodegradable (according to OECD criteria).

Additional information:

There are no data available on the preparation/mixture itself. (AOX (mg/l): 0)

* 12.3. Bioaccumulative potential

Substance name	Log K _{OW}	Bioconcentration factor (BCF)
acetone CAS No.: 67-64-1 EC No.: 200-662-2	-0.24	
4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	1.03	
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	3.15	
toluene CAS No.: 108-88-3 EC No.: 203-625-9	2.73	

Accumulation / Evaluation:

There are no data available on the mixture itself.

12.4. Mobility in soil

No information available.

* 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
acetone CAS No.: 67-64-1 EC No.: 200-662-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
4-hydroxy-4-methylpentan-2-one, diacetone alcohol CAS No.: 123-42-2 EC No.: 204-626-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
toluene CAS No.: 108-88-3 EC No.: 203-625-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

* 12.6. Endocrine disrupting properties

No information available.

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* 12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to applicable legislation.

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

*: Evidence for disposal must be provided.

Waste code packaging:

15 01 04 metallic packaging

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.

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
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

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Hazard identification number (Kemler No.): Classification code: 5F tunnel restriction code: (D) Remark: Warning: Flammable gases.	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Warning: Flammable gases.	Special provisions: 63, 190, 277, 327, 344, 381, 959 Limited quantity (LQ): 1000 mL Excepted Quantities (EQ): E0 EmS-No.: F-D; S-U Remark: Warning: Flammable gases.	Special provisions: A145, A167, A802 Limited quantity (LQ): 30 kg G Excepted Quantities (EQ): E0 Remark: Warning: Flammable gases.

- * **14.7. Maritime transport in bulk according to IMO instruments**
No data available

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:**
Use restriction according to REACH annex XVII, no.: 48: Toluene
- Other regulations (EU):**
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:
• P3b 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids Category 1
Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] (VOC): No information available.
2004/42/EG (VOC): No information available.
- 15.1.2. National regulations**
-  **[DE] National regulations**
- Störfallverordnung**
for substances possibly developing during an incident:
Hazard categories:
• P3b 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids Category 1
- Water hazard class**
- WGK:**
2 - deutlich wassergefährdend
- Remark:**
Self-classification (mixture; calculation rule).
- * **15.2. Chemical Safety Assessment**
No information available.

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* 15.3. Additional information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:
Calculation method.
Aerosol directive (75/324/EEC).

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
5.2.	Special hazards arising from the substance or mixture
8.1.	Control parameters
8.2.	Exposure controls
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
14.7.	Maritime transport in bulk according to IMO instruments
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
15.3.	Additional information
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16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute of Occupational Safety and Health
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)
PBT: persistent bioaccumulative toxic
PNEC: predicted no effect concentration
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)
SVHC: substance of very high concern
TLV: Threshold Limit Values (Schwellwert Grenzwerte)
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

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]

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.	
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.	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version