TECPO

TECPO Bremsen-Servicepaste_EN

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

1.1. Product identifier

Trade name

TECPO Bremsen-Servicepaste_EN

Article No.

300421

UFI code

DG0U-4UVK-D00A-T5WF

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

Relevant identified uses

Lubricant.

Not suitable for use in

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier

TECPO GmbH

Address
Dreherstraße 16-20

42899 Remscheid
Germany

Telephone
+49 2191 951 3305

Email
info@tecpo.de

Fax
+49 2191 951 33044

Web site
www.tecpo.de

Contact person
Baris Ünsal

1.4. Emergency telephone number

Poison center/Additional emergency number

+49 (0) 89 19240 (Available 24/7) - Poison Emergency Call Munich (Available for the public.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification
Aerosol, Hazard category 3

Hazard statements
H229

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Signal word
Warning

Hazard statements
H229 Pressurised container: May burst if heated

Supplemental hazard statements
EUH208 Contains Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts. May produce an allergic reaction.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container to dispose of in accordance with local / regional / national / international regulations.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.
The product does not contain any substances with endocrine-disrupting properties.

Other

In case of insufficient ventilation and/or due to use, formation of explosive/highly flammable mixtures possible. mixtures possible.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts	68584-23-6 271-529-4 01-2119492627-25 -	1 - <3%	Skin Sens. 1B	H317 - -	Skin Sens. 1B, H317: 10% ≤ C ≤ 100%	inhalativ: LC50 = >5 mg/l (Dust or mist) ; dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28-XXXX -	0,1 - <1%	Skin Sens. 1B	H317 - -	Skin Sens. 1B, H317: 10% ≤ C ≤ 100%	inhalativ: LC50 = >5 mg/l (Dust or mist) ; dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 16000 mg/kg
Sulfonic acids, petroleum-derived, calcium salts	61789-86-4 263-093-9 01-2119488992-18 -	0,1 - <1%	Skin Sens. 1B	H317 - -	Skin Sens. 1B, H317: 10% ≤ C ≤ 100%	inhalativ: LC50 = >5 mg/l (Dust or mist) ; dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts	1471316-72-9 939-603-7 01-2119978241-36 -	0,1 - <1%	Skin Sens. 1B	H317 - -		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1B; H317: >=10 - 100

Substance additional information
For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
First aiders should pay attention to self-protection. Bring people to safety. Never give anything by mouth to an unconscious person or if convulsions occur.

Inhalation
Remove person to fresh air and keep comfortable for breathing. If symptoms occur or in case of doubt, seek medical advice.

Skin contact
Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If symptoms occur or in case of doubt, seek medical advice.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur or persist, consult an ophthalmologist.

Ingestion
Do NOT induce vomiting. In case of vomiting, note the risk of aspiration. Always consult a doctor!

4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Symptomatic treatment. Call a POISON CENTER. Symptoms may not appear until many hours after exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media
Full water jet.

5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and combustion gases. If safe to do so, remove undamaged containers from the danger zone. In case of fire: Use self-contained breathing apparatus.

Other

Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways. Do not into the subsoil/soil.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Respiratory protection must be used when exposed to vapors, dusts and aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment.

Staff not trained for emergencies: First aiders should pay attention to self-protection.

Emergency services: Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Prevent the spill from spreading (e.g. by containing it with oil booms). Ensure that all wastewater is collected and treated in a wastewater treatment plant.

6.3. Methods and material for containment and cleaning up

Prevent the spill from spreading (e.g. by containing it with oil booms).
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Thoroughly clean soiled objects and floors in compliance with environmental regulations.

6.4. Reference to other sections

See SECTIONS 7+8+13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Follow the instructions for use. Dust must be extracted safely at source. Vapors/aerosols must be extracted safely at source. If local extraction is not possible or insufficient, ensure that the work area is well ventilated. Do not eat, drink, smoke, or use snuff at the workplace. Wear personal protective equipment (see Section 8).
In case of insufficient ventilation and/or due to use, formation of explosive/highly flammable mixtures possible. mixtures possible.

Notes on fire and explosion protection:
Heating leads to an increase in pressure and risk of bursting.

Information on general hygiene measures at the workplace:
Avoid exposure. Wear suitable protective clothing when working. Draw up and observe a skin protection plan!

Further information on handling:
Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:
Keep container tightly closed. Observe legal rules and regulations.

Storage instructions:
Do not store together with: Oxidizing agents. Pyrophoric or self-heating hazardous substances.
Food and animal feed.

Further information on storage conditions:
Protect from frost. Protect from direct sunlight. Store in a cool and dry place. Observe legal rules and regulations.

Storage class according to TRGS 510: 2B Compressed gas packs (aerosol dispensers)

7.3. Specific end use(s)

There is no information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

a no restriction
b End of exposure or end of shift
c for long-term exposure: after several previous shifts
d before subsequent layer

Y: A risk of fruit damage need not be feared if the occupational exposure limit value (OEL) and the biological limit value (BGW) are complied with
Z: A risk of fruit damage cannot be excluded even if the occupational exposure limit value (OEL) and the biological limit value (BGW) are complied with Blood (B)
Urine (U)

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Source	Remark	Year
Sulfonic acids, petroleum-derived, calcium salts	61789-86-4 263-093-9	- / 5	TRGS 900	4(II)	-
Kieselsäuren, amorphe / Silicic acids, amorphous	7631-86-9 -	1 / -	TRGS 900	8(II); Y	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Inhalation	11,75 mg/m³	Workers	Systemic
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Dermal	3,33 mg/kg bw/day	Workers	Systemic
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Dermal	1,03 mg/cm²	Workers	Local
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Oral	0,833 mg/kg bw/day	Consumers	Systemic
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Dermal	1,667 mg/kg bw/day	Consumers	Systemic
Benzenesulfonic acid, mono-C16-24-alkyl	DNEL	Chronic (long term)	0,513 mg/cm²	Consumers	Local

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
derivs., calcium salts (70024-69-0/274-263-7)		Dermal			
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	DNEL	Chronic (long term) Inhalation	2,9 mg/m³	Consumers	Systemic
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Inhalation	11,75 mg/m³	Workers	Systemic
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Dermal	3,33 mg/kg bw/day	Workers	Systemic
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Dermal	1,03 mg/cm²	Workers	Local
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Inhalation	2,9 mg/m³	Consumers	Systemic
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Dermal	1,667 mg/kg bw/day	Consumers	Systemic
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Dermal	0,513 mg/cm²	Consumers	Local
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	DNEL	Chronic (long term) Oral	0,833 mg/kg bw/day	Consumers	Systemic
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Acute (short term) Dermal	1,04 mg/m³	Workers	Local
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Chronic (long term) Inhalation	8,7 mg/cm²	Consumers	Systemic
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Chronic (long term) Dermal	12,5 mg/kg bw/day	Consumers	Systemic
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Acute (short term) Dermal	0,518 mg/cm²	Consumers	Local
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Chronic (long term) Oral	2,5 mg/kg bw/day	Consumers	Systemic
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts	DNEL	Chronic (long term) Inhalation	35,26 mg/m³	Workers	Systemic

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
(1471316-72-9/939-603-7)					
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	DNEL	Chronic (long term) Dermal	25 mg/kg bw/day	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Freshwater	1 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Intermittent releases (freshwater)	10 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Marine water	1 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Sediment (marine water)	226000 g/kg dwt
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Oral (Secondary Poisoning)	16,667 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Sewage Treatment Plant	1000 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0/274-263-7)	PNEC	Soil	271000 g/kg dwt
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Freshwater	1 mg/l
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Intermittent releases (freshwater)	10 mg/l
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Marine water	1 mg/l
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Sediment (freshwater)	226000 g/kg dwt
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Sediment (marine water)	226000 g/kg dwt
Sulfonic acids, petroleum-derived, calcium salts	PNEC	Oral (Secondary Poisoning)	16,667

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(61789-86-4/263-093-9)			mg/kg
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Sewage Treatment Plant	1000 mg/l
Sulfonic acids, petroleum-derived, calcium salts (61789-86-4/263-093-9)	PNEC	Soil	271000 g/kg dwt
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Freshwater	0,1 mg/l
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Intermittent releases (freshwater)	1 mg/l
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Marine water	0,1 mg/l
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Sediment (freshwater)	45211 mg/kg
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Sediment (marine water)	45211 mg/kg
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Sewage Treatment Plant	1000 mg/l
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts (1471316-72-9/939-603-7)	PNEC	Soil	36739,74 mg/kg

8.2. Exposure controls

Appropriate engineering controls

For open handling, use devices with local exhaust ventilation.

Personal Protective Equipment Symbols



Eye / face protection

Tightly sealed safety goggles DIN EN 166

Hand protection
Preventive skin protection with skin protection ointment. When handling chemical substances, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace depending on the concentration and quantity of hazardous substances.
Suitable material: NBR (nitrile rubber) Breakthrough time: 480min
Thickness of the glove material 0.45 mm
EN ISO 374

Other skin protection
Wear suitable protective clothing when working. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection
Respiratory protection must be used when exposed to vapors, dusts and aerosols. If the relevant occupational exposure limit values are exceeded, the following must be observed:
Suitable breathing apparatus: Combination filter apparatus (DIN EN 141).
Filter unit with filter or blower filter unit type: A
The wearing time limits specified by the manufacturer must be observed.
Observe legal rules and regulations.

Environmental exposure controls
Observe legal rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Aerosol

Colour
Grey.

Odour
Characteristic.

Melting point / freezing point
No data available

Boiling point or initial boiling point and boiling range
240 °C

Flammability
No data available

Lower and upper explosion limit
No data available

Flash point
> 63 °C

Auto-ignition temperature
No data available

Decomposition temperature
No data available

pH
Not applicable.

Kinematic viscosity
No data available

Solubility
No data available

Partition coefficient n-octanol/water
No data available

Vapour pressure
No data available

Density and/or relative density
1,3937 g/cm³
Method
DIN 51757

Relative vapour density
No data available

Particle characteristics
No data available

9.2. Other information
The data refer to the technical active substance: relative density, color, odor, viscosity, pH value.

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reactions will occur if handled and stored as directed.

10.2. Chemical stability
The product is stable under normal conditions.

10.3. Possibility of hazardous reactions
Do not expose to temperatures above 50 °C. Heating leads to an increase in pressure and risk of bursting.

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapors can form an explosive mixture with air. Take measures against electrostatic charging.

10.5. Incompatible materials
Oxidizing agent. Pyrophoric or self-heating hazardous substances.

10.6. Hazardous decomposition products
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Other
Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
ATEmix calculated
ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapor) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	LD50	> 10000 - < 20000 mg/kg	Oral	-	Rat	Study report (1972)
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	LD50	> 2000 mg/kg	Dermal	-	Rat	OECD 402
Benzenesulfonic	LC50	> 5 mg/l	Inhalative	4 hours	Rat	-

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7						
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	LD50	> 16000 mg/kg	Oral	-	Rat	Study report (1981)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	LD50	> 4000 mg/kg	Dermal	-	Rabbit	Study report (1986)
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	LD50	> 16000 mg/kg	Oral	-	Rat	Study report (1981)
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	LD50	> 5000 mg/l	Dermal	-	Rabbit	OECD 402
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	LC50	> 5 mg/l	Inhalative	4 hours	Rat	-
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 / 271-529-4	LD50	> 5000 mg/kg	Oral	-	Rat	-
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 /	LD50	> 5000 mg/kg	Dermal	-	Rat	-

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
271-529-4						
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 / 271-529-4	LC50	> 5 mg/l	Inhalative	4 hours	Rat	-

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met. Contains Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts . May produce an allergic reaction.

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

STOT-repeated exposure
Based on available data, the classification criteria are not met.

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

Routes of exposure
Ingestion, inhalation, skin contact, eye contact.

11.2. Information on other hazards

Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient meets the criteria.

Other information
There is no information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

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

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	LC50	> 100 mg/l	96 hours	Onchorhynchus mykiss (Rainbow trout)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	LC50	> 10000 mg/l	96 hours	Cyprinus carpio (Common carp)
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	LC50	> 10000 mg/l	96 hours	Pimephales promelas (Fat-head Minnow)
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 / 271-529-4	LC50	> 10000 mg/l	96 hours	Onchorhynchus mykiss (Rainbow trout)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	ErC50	> 1000 mg/l	72 hours	Pseudokirchneriella subcapitata	EPA OTS 797.1050
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	ErC50	1000 mg/l	72 hours	Pseudokirchneriella subcapitata	-

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	ErC50	> 1000 mg/l	72 hours	Pseudokirchneriella subcapitata	EPA OTS 797.1050
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 / 271-529-4	ErC50	> 1000 mg/l	96 hours	Scenedesmus subspicatus	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	EC50	> 1000 mg/l	48 hours	Daphnia magna	EPA OTS 797.1300
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	EC50	> 1000 mg/l mg/l	48 hours	Daphnia magna	EPA OTS 797.1300
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	EC50	> 1000 mg/l	48 hours	Daphnia magna	EPA OTS 797.1300
Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts 68584-23-6 / 271-529-4	EC50	> 1000 mg/l	48 hours	Daphnia magna	-

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	EC50	> 10000 mg/l ()	3 hours	activated sludge of a predominantly domestic sewag	OECD 209
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	EC50	> 10000 mg/l	3 hours	activated sludge of a predominantly domestic sewag	OECD 209
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	EC50	> 10000 mg/l	3 hours	activated sludge of a predominantly domestic sewag	OECD 209

12.2. Persistence and degradability
No data available for the mixture. AOX (mg/l): 0

12.3. Bioaccumulative potential
No data available for the mixture.

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Species
Benzene sulfonic acids, di-C10-14-alkyl derivatives, calcium salts 1471316-72-9 / 939-603-7	> 6,91	70,8	fish
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 / 274-263-7	18,05	-	-
Sulfonic acids, petroleum-derived, calcium salts 61789-86-4 / 263-093-9	> 4.46	-	-

12.4. Mobility in soil
Mobility
There is no information available.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not fulfill the PBT/vPvB criteria according to REACH, Annex XIII.

12.6. Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

12.7. Other adverse effects
No further relevant information available.

Other
German Water Class
WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal considerations
Do not allow to enter drains or waterways. Disposal in accordance with official regulations.

Packaging
Non-contaminated and completely emptied packaging can be recycled. Contact the responsible authorized waste disposal company for waste disposal. Disposal in accordance with official regulations.

Waste code	Waste description
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 04	metallic packaging

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number
1950

14.2. UN proper shipping name
ADR / RID / ADN proper shipping name
AEROSOLS, asphyxiant

IMDG proper shipping name
AEROSOLS

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



2.2

IMDG



2.2

ADR / RID Class

2
Tunnel restriction code: E
Transportation category: 3

ADR / RID Classification code

5A

IMDG Class

2

14.4. Packing group

ADR: -
IMDG: -

14.5. Environmental hazards

No.

IMDG Marine Pollutant

No.

14.6. Special precautions for user

There is no information available.

IMDG EmS

F-D, S-U

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other

Additional information ADR-RID

Limited quantity: 1 L
Exempted quantity E0

Additional information IMDG

Limited quantity: 1 L
Exempted quantity E0

SECTION 15: Regulatory information

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

EU regulations

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII, Regulation (EC) 1907/2006 (REACH): 3

Directive 2010/75/EU on industrial emissions: There is no information available.

Directive 2004/42/EC on VOCs from paints and varnishes: There is no information available.

Substances of Very High Concern (SVHC) according to REACH, Article 57: There is no information available.

National regulations

Employment restrictions: Observe employment restrictions for young people (§ 22 JArbSchG)
Water hazard classification : 1 - slightly water endangering
Storage class: 2B Compressed gas packs (aerosol dispensers)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations

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
AGW - Occupational Exposure Limit (Arbeitsplatzgrenzwert)
ATE - Acute Toxicity Estimate
AwSV - Ordinance on Installations for Handling Substances Hazardous to Water
C&L - Einstufung und Kennzeichnung
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
ECHA - European Chemicals Agency
GefStoffV - Hazardous Substances Ordinance (Gefahrstoffverordnung)
GHS - Globally Harmonized System
IMDG - International Maritime Dangerous Goods
International Air Transport Association
IUCLID - International Uniform Chemical Information Database
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LGK - Storage Class (Lagerklasse)
OEL - Occupational Exposure Lim
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC - Predicted No Effect Concentration(s)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SCBA - Self-Contained Breathing Apparatus
STOT - Specific Target Organ Toxicity
SVHC - Substances of Very High Concern
TRGS - Technische Regeln für Gefahrstoffe
UFI - Unique Formula Identifier
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class (Wassergefährdungsklasse)

Phrase meaning

Aerosol 3 - Aerosol, Hazard category 3
Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B
H229 Pressurised container: May burst if heated
H317 May cause an allergic skin reaction.
EUH208 Contains Benzene sulfonic acid, C10–16 alkyl derivatives, calcium salts. May produce an allergic reaction.

Other

Additional information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials
processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Manufacturer's notes

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.