Food Lube Extreme LS 400g

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

1.1. Product identifier

Trade name/designation:

Food Lube Extreme LS 400g

Article No.:
T203101

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

Use of the substance/mixture:
Lubricating agent

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: none

2.3. Other hazards

Other adverse effects:

This mixture does not contain substances classified as PBT or vPvB substances.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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.: 61789-86-4 EC No.: 263-093-9 REACH No.: 01-2119488992-18	**Sulfonic acids, petroleum, calcium salts** Skin Sens. 1B (H317) Warning **Specific concentration limit (SCL)** Skin Sens. 1B; H317: 10% ≤ C < 100%	5 – < 10 Vol-%
CAS No.: 68411-46-1 EC No.: 270-128-1 REACH No.: 01-2119491299-23	**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene** Aquatic Chronic 3 (H412)	5 – < 10 Vol-%
CAS No.: 70024-69-0 EC No.: 274-263-7 REACH No.: 01-2119492616-28	**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts** Skin Sens. 1B (H317) Warning **Specific concentration limit (SCL)** Skin Sens. 1B; H317: 10% ≤ C < 100%	5 – < 10 Vol-%
CAS No.: 68584-23-6 EC No.: 271-529-4 REACH No.: 01-2119492627-25	**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts** Skin Sens. 1B (H317) Warning **Specific concentration limit (SCL)** Skin Sens. 1B; H317: 10% ≤ C < 100%	5 – < 10 Vol-%
CAS No.: 26264-06-2 EC No.: 247-557-8 REACH No.: 01-2120122335-68	**calcium dodecylbenzenesulphonate** Acute Tox. 4 (H302), Aquatic Chronic 4 (H413), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger	1 – < 3 Vol-%

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:
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After 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.

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

Self-protection of the first aider:
Use personal protection equipment.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

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 inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

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. First aider: Pay attention to self-protection!

6.1.2. For emergency responders

Personal protection equipment:

Fight fire with normal precautions from a reasonable distance.

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:

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Clean contaminated articles and floor according to the environmental legislation.

Other information:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Further information on proper storage: see section 7.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

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

Avoid contact with eyes and skin.

Fire prevent measures:
Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene
Avoid exposure - obtain special instructions before use. Wear suitable work clothing. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

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

Hints on storage assembly:
Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from food, drink and animal feed.

Storage class (TRGS 510, Germany): 11 – Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Store in a cool dry place. Observe legal rules and regulations.

7.3. Specific end use(s)

Recommendation:
No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values
No data available

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	11.75 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	2.9 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1.667 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1.03 mg/cm²	① DNEL worker ② Long-term - dermal, local effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	0.513 mg/cm²	① DNEL Consumer ② Long-term - dermal, local effects

Substance name	DNEL value	① DNEL type ② Exposure route
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	0.833 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.6 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.14 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.08 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.04 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.04 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	11.75 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	2.9 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1.667 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1.03 mg/cm²	① DNEL worker ② Long-term - dermal, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	0.513 mg/cm²	① DNEL Consumer ② Long-term - dermal, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	0.833 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	52 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	26 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects

Substance name	DNEL value	① DNEL type ② Exposure route
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	52 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	26 mg/m³	① DNEL Consumer ② Acute - inhalation, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	52 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	26 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	52 mg/m³	① DNEL worker ② Acute - inhalation, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	26 mg/m³	① DNEL Consumer ② Acute - inhalation, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	57.2 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	28.6 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	80 mg/kg bw/day	① DNEL worker ② Acute – dermal, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	40 mg/kg bw/day	① DNEL Consumer ② Acute – dermal, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	1.57 mg/cm²	① DNEL worker ② Long-term - dermal, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	0.787 mg/cm²	① DNEL Consumer ② Long-term - dermal, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	1.57 mg/m³	① DNEL worker ② Acute - dermal, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	0.787 mg/cm²	① DNEL Consumer ② Acute - dermal, local effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	13 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	13 mg/kg bw/day	① DNEL Consumer ② Acute – oral, systemic effects

Substance name	PNEC Value	① PNEC type
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1 mg/L	① PNEC aquatic, freshwater
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1 mg/L	① PNEC aquatic, marine water

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Substance name	PNEC Value	① PNEC type
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1,000 mg/L	① PNEC sewage treatment plant
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	226,000,000 mg/kg	① PNEC sediment, freshwater
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	226,000,000 mg/kg	① PNEC sediment, marine water
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	271,000,000 mg/kg	① PNEC soil
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	16.667 mg/kg	① PNEC secondary poisoning
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	10 mg/L	① PNEC aquatic, intermittent release
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.034 mg/L	① PNEC aquatic, freshwater
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.003 mg/L	① PNEC aquatic, marine water
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	10 mg/L	① PNEC sewage treatment plant
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.446 mg/kg	① PNEC sediment, freshwater
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.045 mg/kg	① PNEC sediment, marine water
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	1.76 mg/kg	① PNEC soil
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	0.51 mg/L	① PNEC aquatic, intermittent release
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1	① PNEC aquatic, freshwater
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1	① PNEC aquatic, marine water

Substance name	PNEC Value	① PNEC type
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1,000	① PNEC sewage treatment plant
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	226,000,000	① PNEC sediment, freshwater
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	226,000,000	① PNEC sediment, marine water
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	271,000,000	① PNEC soil
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	10	① PNEC secondary poisoning
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	16.667	① PNEC secondary poisoning
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	0.28 mg/L	① PNEC aquatic, freshwater
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	0.458 mg/L	① PNEC aquatic, marine water
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	50 mg/L	① PNEC sewage treatment plant
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	27.5 mg/kg	① PNEC sediment, freshwater
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	2.75 mg/kg	① PNEC sediment, marine water
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	25 mg/kg	① PNEC soil
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	20 mg/kg	① PNEC secondary poisoning
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	0.654 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

8.2.2. Personal protection equipment

Eye/face protection:

Suitable eye protection: Safety goggles with side shields (EN 166).

Skin protection:
Hand protection:
Use protective skin cream before handling the product. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber)
Breakthrough time: 480 min.
Thickness of the glove material: 0,45 mm
EN ISO 374

Body protection:
Wear suitable work clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection:
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
If the relevant occupational exposure limits are exceeded, the following must be observed: Suitable respiratory protective device: Combination filter device (DIN EN 141). Filter unit with filter or blower filter unit type: A
Observe the wear time limits as specified by the manufacturer.
Observe legal rules and regulations.

8.2.3. Environmental exposure controls
Observe legal rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Physical state: pasty
Colour: cream
Odour: solvent-like

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	100 °C		
Flash point	> 200 °C		① ISO 3679
Evaporation rate	*No data available*		
Vapour pressure	*No data available*		
Density	0.9225 g/cm³	20 °C	① DIN 51757
Water solubility	practically insoluble		

9.2. Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

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. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

10.5. Incompatible materials
Oxidizing agent. Pyrophoric or self-heating 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 inhaled in high concentrations or in enclosed spaces.

Further information
Do not mix with other chemicals.

SECTION 11: Toxicological information

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

Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9
LD_{50} oral: >16,000 mg/kg (Rat)
LD_{50} dermal: >5,000 mg/kg (Rabbit) OECD 402
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1
LD_{50} oral: >5,000 mg/kg (Rat) other: Section 772 .112-21 CFR 40
LD_{50} dermal: >2,000 mg/kg (Rat) OECD 402
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L 4 h (Rat)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7
LD_{50} oral: >16,000 mg/kg (Rat) other: Section 772.112-21 CFR 40
LD_{50} dermal: >4,000 mg/kg (Rabbit) other: 40 CFR, Section 163.81-2, Federal
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4
LD_{50} oral: >5,000 mg/kg (Rat)
LD_{50} dermal: >5,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8
LD_{50} oral: 1,300 mg/kg (Rat) other: Defined oral LD_{50}.
LD_{50} dermal: 2,000 mg/kg (Rabbit) Method: other: Test material was applied

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

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

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

Skin corrosion/irritation:
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:
May cause allergic reactions. (Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts)

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

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

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

STOT-single exposure:
May cause drowsiness or dizziness. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

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

Aspiration hazard:
May be fatal if swallowed and enters airways.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9
ErC_{50}: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1050
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna) EPA OTS 797.1300
EC_{50}: >10,000 mg/L (Activated sludge of a predominantly domestic sewag) OECD 209
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1
LC_{50}: >100 mg/L 4 d (fish, Danio rerio) OECD 203
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
EC_{50}: >51 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7
LC_{50}: >10,000 mg/L 4 d (fish, Cyprinus carpio) EPA OTS 797.1050
ErC_{50}: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1300
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 209
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4
LC_{50}: >10,000 mg/L 4 d (fish, Oncorhynchus mykiss)
ErC_{50}: >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8
LC_{50}: 1.74 mg/L 4 d (fish, Fishes species) other: QSAR
ErC_{50}: 65.4 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
EC_{50}: 1.276 mg/L 2 d (crustaceans, Daphnid species) other: QSAR model
NOEC: 0.23 mg/L 28 d (fish, Fish species) other: QSAR
NOEC: 1.65 mg/L 21 d (crustaceans, Daphnia magna) OECD 211

Aquatic toxicity:
The product is not: Ecotoxic

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9
Log K_{OW}: > 4.46
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1
Log K_{OW}: > 6
Bioconcentration factor (BCF): 411
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7
Log K_{OW}: 18.05

calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	
Log K_{OW}: 4.77	
Bioconcentration factor (BCF): 70.79	

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	
Results of PBT and vPvB assessment: —	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1	
Results of PBT and vPvB assessment: —	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	
Results of PBT and vPvB assessment: —	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4	
Results of PBT and vPvB assessment: —	
calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8	
Results of PBT and vPvB assessment: —	

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

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

12.7. Other adverse effects
No further relevant information available.
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

12 01 12 *	spent waxes and fats

**: Evidence for disposal must be provided.*

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options
Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Water (with cleaning agent). Completely emptied packages can be recycled.

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			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:
Regulation (EC) No 1907/2006 ANNEX XVII

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable Organic halogen compounds
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%

MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
QSAR	Quantitative Structure-Activity Relationship
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.