

INDUSTRIAL SOOT REMOVER

| | | | |
|---------------|------------------|---------|-----|
| Creation date | 19th August 2021 | Version | 1.0 |
| Revision date | | | |

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

1.1. Product identifier INDUSTRIAL SOOT REMOVER
Substance / mixture mixture
Number 1 36417
UFI J513-8DQT-N00M-KWGO

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Cleaning agent.
For professional use only.

Mixture uses advised against

Do not use on non-alkali resistant materials.
Beware of contact with metallic materials, it may be corrosive.
Do not use in combination with acidic products.
The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet**Supplier**

| | |
|-----------------------------|--|
| Name or trade name | RETECH, s.r.o. |
| Address | Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic |
| Identification number (CRN) | 25018205 |
| VAT Reg No | CZ25018205 |
| Phone | +420327596428 |
| E-mail | info@retech.cz |
| Web address | www.retech.com |

Competent person responsible for the safety data sheet

| | |
|--------|----------------|
| Name | RETECH, s.r.o. |
| E-mail | info@retech.cz |

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Met. Corr. 1, H290
Skin Corr. 1, H314
Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

May be corrosive to metals.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Causes serious eye damage.

2.2. Label elements**Hazard pictogram****Signal word**

Danger

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Hazardous substances

 sodium hydroxide
 potassium hydroxide

Hazard statements

 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.

Precautionary statements

 P260 Do not breathe mist.
 P280 Wear protective gloves/protective clothing/eye protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a doctor.

Supplemental information
2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|--|---------------------------|---------------------|---|------|
| Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27 | sodium hydroxide | 1-5 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % | |
| Index: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33 | potassium hydroxide | 1-5 | Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % | |
| CAS: 15763-76-5 EC: 239-854-6 Registration number: 01-2119489411-37 | Sodium p-cumenesulphonate | 1-3 | Eye Irrit. 2, H319 | |
| Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44 | 2-(2-butoxyethoxy)ethanol | 1-2 | Eye Irrit. 2, H319 | 1, 2 |

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Notes

- 1 Substance with a Union workplace exposure limit.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. **DO NOT INDUCE VOMITING!** If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Always ensure the safety of a person providing aid and a person receiving aid. Personal protective equipment must be donned before entering the contaminated area.

Respiratory arrest - provide artificial respiration immediately.

Cardiac arrest - provide indirect cardiac massage immediately.

If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. If necessary, rinse out your mouth, possibly nose with clean water. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Cover corroded parts of the skin with sterile dressing; do not apply ointments or other medicine on the skin. Cover the person to ensure protection against growing cold. Provide medical treatment.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Continue rinsing. Provide medical treatment. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Ensure calm environment for body and mind. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. Do not provide anything to eat. Do not provide anything by mouth if the person is unconscious or if having cramps. Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes severe skin burns and poorly healing wounds. Short-term skin exposure may result in skin dryness, redness and burning etc.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is non-flammable. Accommodate extinguishing components to the location of fire. Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Use only alkali- and solvent-proof equipment. Prevent other leakage. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Evacuate area. Keep unprotected persons away.

EN469 - Protective clothing for firefighters.

EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Evacuate area. Keep unprotected persons away. Do not breathe mist. Do not inhale aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

In case of an accidental release, cover all drains. Prevent other leakage. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. Absorb spillage to prevent material damage. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Wash hands and exposed parts of the body thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Observe valid legal regulations on safety and health protection. Observe usual measures for protection of the environment, see Section 6.2.

7.2. Conditions for safe storage, including any incompatibilities

Do not expose to sunlight. Keep away from heat, open flames. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Keep only in original packaging. Protect from exposure to weather. Protect against frost. Provide alkali-resistant floor. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

| Content | Packaging type | Material of package |
|---------|----------------|---------------------|
| 750 ml | bottle | HDPE |

Storage temperature min 0 °C, max 30 °C

The specific requirements or rules relating to the substance/mixture

High alkaline cleaner. Do not use in combination with acidic products. Do not use on non-alkali resistant materials. Beware of contact with metallic materials, it may be corrosive. Follow the product label instructions.

7.3. Specific end use(s)

not available

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SECTION 8: Exposure controls/personal protection
8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union
Commission Directive 2006/15/EC

| Substance name (component) | Type | Value |
|---|----------------|-------------------------|
| 2-(2-butoxyethoxy)ethanol (CAS: 112-34-5) | OEL 8 hours | 67,5 mg/m ³ |
| | OEL 8 hours | 10 ppm |
| | OEL 15 minutes | 101,2 mg/m ³ |
| | OEL 15 minutes | 15 ppm |

DNEL

2-(2-butoxyethoxy)ethanol

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-------------------------|--------------------------|--------------------|
| Workers | Dermal | 83 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 101.2 mg/m ³ | Local acute effects | |
| Workers | Inhalation | 67.5 mg/m ³ | Local chronic effects | |
| Workers | Inhalation | 67.5 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 5 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 50 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 60.7 mg/m ³ | Local acute effects | |
| Consumers | Inhalation | 40.5 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 40.5 mg/m ³ | Systemic chronic effects | |

potassium hydroxide

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|---------------------|-----------------------|--------------------|
| Workers | Inhalation | 1 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 1 mg/m ³ | Local chronic effects | |

sodium hydroxide

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|---------------------|-----------------------|--------------------|
| Workers | Inhalation | 1 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 1 mg/m ³ | Local chronic effects | |

Sodium p-cumenesulphonate

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------------------------|--------------------|
| Workers | Dermal | 7.6 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 53.6 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 3.8 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 3.8 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 13.2 mg/m ³ | Systemic chronic effects | |

PNEC

2-(2-butoxyethoxy)ethanol

| Route of exposure | Value | Determining method |
|------------------------|----------|--------------------|
| Freshwater environment | 1.1 mg/l | |

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2-(2-butoxyethoxy)ethanol

| Route of exposure | Value | Determining method |
|---|------------|--------------------|
| Freshwater sediment | 4.4 mg/kg | |
| Seawater | 0.11 mg/l | |
| Sea sediments | 0.44 mg/kg | |
| Water (intermittent release) | 11 mg/l | |
| Microorganisms in wastewater treatment plants | 200 mg/l | |
| Soil (agricultural) | 0.32 mg/kg | |
| Food chain | 56 mg/kg | |

Sodium p-cumenesulphonate

| Route of exposure | Value | Determining method |
|---|-----------|--------------------|
| Freshwater environment | 0.23 mg/l | |
| Microorganisms in wastewater treatment plants | 3100 mg/l | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. When possible, use automated and/or closed systems. Ensure that there is no splashes (do not handle the product above your head, do not pour the product from a height). Ensure that persons handling with the product wear protective equipment and are familiar enough with the corrosive properties of the product. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Treat with regenerative cream. Do not eat, drink and smoke during work. Do not store together with food, drink and animal feed.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed). EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Use barrier creams for skin protection. The glove material must be impermeable and resistant to basis and solvents.

Material of gloves (NaOH): PVC.

Material of gloves (Natural rubber (NR 0.6 mm), nitrile rubber (NBR, 0.4 mm), PVC, neoprene, Butyl rubber. Use if a spill or other accident occurs: viton (FKM, 0.7 mm). Penetration time of glove material: > 480 min.

Material of gloves (2-(2-butoxyethoxy)ethanol): Butyl rubber, polyethylene, chlorinated polyethylene, EVAL. Penetration time of glove material: > 120 min.

When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.

Other protection: Under regular circumstances it is not necessary. In case of splashing risk: protective workwear and plastic or rubber footwear or rubber apron. Wash contaminated clothing before reuse.

Respiratory protection

Prevent splash and splatter exposure - by using closed systems (if possible), covering containers, not pouring the product from a height, not handling it above your head. Do not inhale gases and vapours. Do not inhale aerosols. Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. EN143 - Respiratory protective devices - Particle filters. Use respirator with a 95% minimum efficiency for spraying techniques. Use insulating breathing apparatus in case of an accident, fire or high concentration.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------|
| Physical state | liquid |
| Colour | yellow |
| Odour | according to fragrance |
| Melting point/freezing point | <0 °C |
| Boiling point or initial boiling point and boiling range | data not available |

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| | |
|---|--------------------------------------|
| Flammability | data not available |
| Lower and upper explosion limit | data not available |
| Flash point | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | 12-13 (undiluted) |
| Kinematic viscosity | data not available |
| Solubility in water | miscible |
| Solubility in fats | data not available |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | |
| Density | 1,05-1,15 g/cm ³ at 20 °C |
| Form | liquid |
| data not available | |

9.2. Other information

| | |
|----------------------|---|
| Evaporation rate | data not available |
| Explosive properties | The product does not have explosive properties. |
| Oxidising properties | The product has no oxidizing properties. |

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The product is stable under normal conditions. Violent neutralisation reaction may occur on contact with products containing acids.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Protect from sunlight.

10.5. Incompatible materials

Non-alkali-resistant materials - e.g. aluminum, zinc, magnesium. Protect against strong acids and oxidizing agents. May be corrosive to metals.

10.6. Hazardous decomposition products

Not developed under normal uses. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2-(2-butoxyethoxy)ethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|-------------|------------------|---------|-----|
| Oral | LD ₅₀ | >2000 mg/kg | | Rat | |
| Dermal | LD ₅₀ | >2000 mg/kg | | Rabbit | |

potassium hydroxide

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|-----------|------------------|---------|-----|
| Oral | LD ₅₀ | 333 mg/kg | | Rat | |

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sodium hydroxide

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|------------|------------------|---------|-----|
| Intraperitoneally | LD ₅₀ | 40 mg/kg | | Mouse | |
| Oral | LDL 0 | 500 mg/kg | | Rabbit | |
| Dermal | LD ₅₀ | 1350 mg/kg | | Rabbit | |

Sodium p-cumenesulphonate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|------------|------------------|---------|-----|
| Oral | LD ₅₀ | 7200 mg/kg | | Rat | |
| Dermal | LD ₅₀ | 2000 mg/kg | | Rat | |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

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.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

Data for the mixture are not available.

2-(2-butoxyethoxy)ethanol

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|------------------------------|-------------|--------------------|
| LC ₅₀ | 1300 mg/l | 96 hour | Fishes (Lepomis macrochirus) | | |
| EC ₅₀ | >100 mg/l | 48 hour | Daphnia (Daphnia magna) | | |

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2-(2-butoxyethoxy)ethanol

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|---------------------------------|-------------|--------------------|
| EC ₅₀ | >100 mg/l | 96 hour | Algae (Scenedesmus subspicatus) | | |
| EC ₅₀ | 255 mg/l | | Bacteria | | Static system |

potassium hydroxide

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-------------|------------------|-------------------------|-------------|--------------------|
| LD ₅₀ | 100-10 mg/l | 96 hour | Fishes | | |
| LC ₅₀ | 270 mg/l | 24 hour | Daphnia (Daphnia magna) | | |
| LC | 28.6 mg/l | 24 hour | Fishes | | |

sodium hydroxide

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|-------------------------------|-------------|--------------------|
| LC ₅₀ | 160 mg/l | 24 hour | Fishes (Carassius auratus) | | |
| LC ₅₀ | 125 mg/l | 96 hour | Fishes (Gambusia affinis) | | |
| LC 100 | 180 mg/l | 24 hour | Fishes (Cyprinus carpio) | | |
| EC ₅₀ | 40.4 mg/l | 48 hour | Invertebrates (Daphnia magna) | | |

Sodium p-cumenesulphonate

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|---------|-------------|--------------------|
| LC ₅₀ | 1000 mg/l | | Fishes | | |
| EC ₅₀ | 1000 mg/l | | Daphnia | | |
| IC ₅₀ | 230 mg/l | | Algae | | |

12.2. Persistence and degradability
Biodegradability

2-(2-butoxyethoxy)ethanol

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|---------|------------------|------------------|---------------|
| | OECD 301C | 89-93 % | 28 day | | Biodegradable |
| | OECD 302B | 100 % | 28 day | Activated sludge | Biodegradable |
| BSK5 | | 27 % | | | |
| BSK10 | | 60 % | | | |
| BSK20 | | 81 % | | | |

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| BCF | <100 | | | | |
| Log Pow | <3 | | | | |

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Sodium hydroxide: Bioaccumulation in organisms is unlikely.
Potassium hydroxide: Bioaccumulation in organisms is unlikely.
2-(2-butoxyethoxy)ethanol: Bioaccumulation in organisms is unlikely.
Sodium p-cumenesulphonate: No bioaccumulation potential.

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol

| Parameter | Value | Environment | Surrounding temperature |
|-----------|-------|-------------|-------------------------|
| Koc | 2 | | |

2-(2-butoxyethoxy)ethanol: The substance will not evaporate into the atmosphere from the water surface. Potential for mobility in soil is high. Adsorption to the solid soil phase is not expected.

Sodium hydroxide: Soluble in water. Ion exchange may occur when the product diffuses into the soil.

Potassium hydroxide: Soluble in water. Ion exchange may occur when the product diffuses into the soil.

Sodium p-cumenesulphonate: Soluble in water. May soak into the soil when dissolved in water.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Sodium hydroxide: Harmful for aquatic organisms. Do not allow to enter drains. A high pH-value harms aquatic organisms.

Potassium hydroxide: Harmful for aquatic organisms. Do not allow to enter drains. A high pH-value harms aquatic organisms.

Sodium p-cumenesulphonate: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Recycle the product where possible, or neutralize it and then dispose of to a wastewater treatment plant. Incineration or landfill should only be considered when recycling is not feasible. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05 organic wastes containing hazardous substances *

20 01 15 Alkalines *

20 01 29 detergents containing hazardous substances *

Packaging waste type code

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

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide, potassium hydroxide, solution)

14.3. Transport hazard class(es)

8 Corrosive substances

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14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

80

UN number

1719

Classification code

C5

Safety signs

8



Road transport - ADR

Excepted quantities

E2

Railway transport - RID

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

| Restriction | Conditions of restriction |
|-------------|--|
| 55 | <p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p> |

15.2. Chemical safety assessment

not available

SECTION 16: Other information

INDUSTRIAL SOOT REMOVER

| | | | |
|---------------|------------------|---------|-----|
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| Revision date | | | |

A list of standard risk phrases used in the safety data sheet

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

Guidelines for safe handling used in the safety data sheet

| | |
|----------------|--|
| P260 | Do not breathe mist. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|---------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| BSK | Biochemical oxygen demand |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| log K _{ow} | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |

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| | | | |
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| | |
|-------------|--|
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Met. Corr. | Corrosive to metals |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.