

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

OVENCLEANER FS

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

1.1. Product identifier

Product name : OVENCLEANER FS
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|------------|-------------|--|
| Met. Corr. | category 1 | H290: May be corrosive to metals. |
| Acute Tox. | category 4 | H302: Harmful if swallowed. |
| Skin Corr. | category 1A | H314: Causes severe skin burns and eye damage. |
| Eye Dam. | category 1 | H318: Causes serious eye damage. |

2.2. Label elements



Contains: potassium hydroxide; tetrasodium ethylene diamine tetraacetate.

Signal word Danger

H-statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

P-statements

P280 Wear protective gloves, protective clothing and eye protection/face protection.
P260 Do not breathe vapours/mist.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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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 POISON CENTER/doctor.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|--|------------------------|-----------|--|------------|-------------|----------------------|
| potassium hydroxide 01-2119487136-33 | 1310-58-3 215-181-3 | 5%<C<15% | Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Corr. 1A; H314: C≥5%, (CLP Annex VI (ATP 0)) Skin Corr. 1B; H314: 2%≤C<5% , (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 0,5% ≤C<2%, (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 0,5%≤C<2% , (CLP Annex VI (ATP 0)) | (1)(2)(10) | Constituent | |
| tetrasodium ethylene diamine tetraacetate 01-2119486762-27 | 64-02-8 200-573-9 | C<5% | Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Dam. 1; H318 | (1)(6)(10) | Constituent | |

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. Immediately consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

After ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract. Headache. Dizziness. Nausea. Disturbances of consciousness.

After skin contact:

Caustic burns/corrosion of the skin.

After eye contact:

Corrosion of the eye tissue.

After ingestion:

Possible esophageal perforation. Burns to the gastric/intestinal mucosa.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Use water moderately and if possible collect or contain it. Take account of toxic fire-fighting water. Heat exposure: dilute toxic gas/vapour with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Large spills/in enclosed spaces: self-contained breathing apparatus (EN 136 + EN 137). Large spills/in enclosed spaces: gas-tight suit (EN 943). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Corrosion-proof appliances. Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Large spills/in enclosed spaces: self-contained breathing apparatus (EN 136 + EN 137). Large spills/in enclosed spaces: gas-tight suit (EN 943).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Use corrosionproof equipment. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Keep container in a well-ventilated place. Protect against frost. Keep out of direct sunlight. Keep locked up. Unauthorized persons are not admitted. Keep container tightly closed.

7.2.2 Keep away from:

Heat sources, (strong) acids, metals.

7.2.3 Suitable packaging material:

Corrosion-proof.

7.2.4 Non suitable packaging material:

Metal.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

| | | |
|--------------------------|------------------|-------------------------|
| Potassium (hydroxyde de) | Short time value | 2 mg/m ³ (1) |
|--------------------------|------------------|-------------------------|

(1) M: La mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.

France

| | | |
|--------------------------|--|---------------------|
| Potassium (hydroxyde de) | Short time value (VL: Valeur non réglementaire indicative) | 2 mg/m ³ |
|--------------------------|--|---------------------|

Austria

| | | |
|----------------|-----------------------|-------------------------|
| Kaliumhydroxid | Tagesmittelwert (MAK) | 2 mg/m ³ (1) |
|----------------|-----------------------|-------------------------|

(1) Einatembare Fraktion

UK

| | | |
|---------------------|---|---------------------|
| Potassium hydroxide | Short time value (Workplace exposure limit (EH40/2005)) | 2 mg/m ³ |
|---------------------|---|---------------------|

USA (TLV-ACGIH)

| | | |
|---------------------|---------------------------------------|---------------------|
| Potassium hydroxide | Momentary value (TLV - Adopted Value) | 2 mg/m ³ |
|---------------------|---------------------------------------|---------------------|

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

| Product name | Test | Number |
|-------------------------------------|-------|--------|
| Potassium Hydroxide (Alkaline Dust) | NIOSH | 7401 |
| Potassium Hydroxide | NIOSH | 7405 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

potassium hydroxide

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|------------------------------------|---------------------|--------|
| DNEL | Long-term local effects inhalation | 1 mg/m ³ | |

tetrasodium ethylene diamine tetraacetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|------------------------------------|-----------------------|--------|
| DNEL | Long-term local effects inhalation | 1.5 mg/m ³ | |
| | Acute local effects inhalation | 3 mg/m ³ | |

DNEL/DMEL - General population

potassium hydroxide

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|------------------------------------|---------------------|--------|
| DNEL | Long-term local effects inhalation | 1 mg/m ³ | |

tetrasodium ethylene diamine tetraacetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|------------------------------------|-----------------------|--------|
| DNEL | Long-term local effects inhalation | 0.6 mg/m ³ | |
| | Acute local effects inhalation | 1.2 mg/m ³ | |
| | Long-term systemic effects oral | 25 mg/kg bw/day | |

PNEC

tetrasodium ethylene diamine tetraacetate

| Compartments | Value | Remark |
|-------------------------------------|--------------------|--------|
| Fresh water | 2.2 mg/l | |
| Marine water | 0.22 mg/l | |
| Fresh water (intermittent releases) | 1.2 mg/l | |
| STP | 43 mg/l | |
| Soil | 0.72 mg/kg soil dw | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type B at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|----------------|----------------------------|-----------|------------------|--------|
| nitrile rubber | > 480 minutes | 0.35 mm | Class 6 | |

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Corrosion-proof clothing (EN 14605).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|-------------------------------------|
| Physical form | Liquid |
| Colour | Colourless |
| Odour | Characteristic odour |
| Odour threshold | No data available in the literature |
| Melting point | 0 °C |
| Boiling point | 100 °C |
| Flammability | Not classified as flammable |
| Explosion limits | No data available in the literature |
| Flash point | No data available in the literature |
| Auto-ignition temperature | No data available in the literature |
| Decomposition temperature | No data available in the literature |
| pH | 13.9 |
| Kinematic viscosity | 1 mm ² /s ; 40 °C |
| Dynamic viscosity | 1 mPa.s ; 20 °C |
| Solubility | Water ; complete |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | 23.32 hPa ; 20 °C |
| Absolute density | 1145 kg/m ³ ; 20 °C |
| Relative density | 1.15 ; 20 °C |
| Relative vapour density | No data available in the literature |
| Particle size | Not applicable (liquid) |

9.2. Other information

| | |
|------------------|---------------------|
| Evaporation rate | 0.3 ; Butyl acetate |
|------------------|---------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard. Basic reaction. May be corrosive to metals.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May be corrosive to metals.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

10.5. Incompatible materials

(strong) acids, metals.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

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SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

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| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|-----------------|---------------|---------|---------------------|--------|
| Oral | ATE | | 1941 mg/kg bw | | | Calculated value | |
| Dermal | ATE | | > 2000 mg/kg bw | | | Calculated value | |

Classification is based on the relevant ingredients
potassium hydroxide

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|--------------------------------|---------------|------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 425 | 333 mg/kg bw - 388 mg/kg bw | | Rat (male) | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation | | | | | | Data waiving | |

tetrasodium ethylene diamine tetraacetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|-----------|----------------------------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | BASF test | 1780 mg/kg bw - 2000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation (aerosol) | LOAEC | OECD 412 | 30 mg/m ³ air | 6 h | Rat (male) | Read-across | |

Conclusion

Harmful if swallowed.
 Not classified as acute toxic in contact with skin
 Not classified as acute toxic if inhaled

Corrosion/irritation

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No (test) data on the mixture available
 Classification is based on the relevant ingredients
potassium hydroxide

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|--------------------|------------------------|---------------|--------------|-------------------------------|---------------------|-----------------------|
| Eye | Serious eye damage | Equivalent to OECD 405 | 5 minutes | | Rabbit | Experimental value | 5% aqueous solution |
| Not applicable (in vitro test) | Corrosive | Equivalent to OECD 431 | | 1 hour | Reconstructed human epidermis | | 10 % aqueous solution |
| Skin | Corrosive | Equivalent to OECD 404 | 4 h | 24; 48 hours | Rabbit | Experimental value | 10 % aqueous solution |
| Inhalation | Irritating | Human observation | | | Human | Read-across (NaOH) | |

tetrasodium ethylene diamine tetraacetate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|------------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Serious eye damage | Equivalent to OECD 405 | | 24; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

Conclusion

Causes severe skin burns and eye damage.
 Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

OVENCLEANER FS

No (test) data on the mixture available
 Judgement is based on the relevant ingredients
potassium hydroxide

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|--------|---------------|------------------------|-------------------|---------------------|------------------|
| Skin | Not sensitizing | | | | Guinea pig (male) | Experimental value | Aqueous solution |

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tetrasodium ethylene diamine tetraacetate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | 24; 48; 72 hours | Guinea pig (female) | Read-across | |

Conclusion

Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

Specific target organ toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

potassium hydroxide

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|-------|--------------|---------------|---------|---------------------|--------|
| Oral | | | | | | | Data waiving | |
| Dermal | | | | | | | Data waiving | |
| Inhalation | | | | | | | Data waiving | |

tetrasodium ethylene diamine tetraacetate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------------------------|-------------------------|--------------|------------------------------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL | Subchronic toxicity test | ≥ 500 mg/kg bw/day | No effect | 13 weeks (daily) | Rat (male) | Read-across | |
| Inhalation (dust) | NOAEC | OECD 413 | 3 mg/m ³ air | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across | |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

potassium hydroxide

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

tetrasodium ethylene diamine tetraacetate

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Read-across | |

Mutagenicity (in vivo)

OVENCLEANER FS

No (test)data on the mixture available

Judgement is based on the relevant ingredients

potassium hydroxide

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|--------|--------|---------------|----------------|--------------|---------------------|--------|
| | | | | | Data waiving | |

tetrasodium ethylene diamine tetraacetate

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|--------------------------------|----------|----------------------------|----------------|--------------|---------------------|--------|
| Negative (Oral (stomach tube)) | OECD 474 | 2 dose(s)/24-hour interval | Mouse (male) | No effect | Read-across | |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

potassium hydroxide

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|-------|--------------|---------------|---------|---------------------|--------|
| Unknown | | | | | | | Data waiving | |

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tetrasodium ethylene diamine tetraacetate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|-----------------------------|--------------------|------------------------|-------------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL | Carcinogenic toxicity study | ≥ 500 mg/kg bw/day | No carcinogenic effect | 103 weeks (daily) | Rat (male / female) | Read-across | |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

potassium hydroxide

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|------------------------|-----------|--------|-------|---------------|---------|--------|---------------------|--------|
| Developmental toxicity | | | | | | | Data waiving | |
| Effects on fertility | | | | | | | Data waiving | |

tetrasodium ethylene diamine tetraacetate

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|-----------|------------------------------|---------------------|---------------|---------------------|-------------------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | ≥ 1374 mg/kg bw/day | 7 day(s) | Rat | No effect | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | LOAEL | Developmental toxicity study | 1374 mg/kg bw/day | 7 day(s) | Rat | Maternal toxicity | Experimental value | |
| Effects on fertility (Oral (diet)) | NOAEL | | ≥ 250 mg/kg bw/day | 2 year(s) | Rat (male / female) | No effect | Read-across | |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

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Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

tetrasodium ethylene diamine tetraacetate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|-------------|-----------|---------------------------------|---------------------|------------------|---------------------|
| Acute toxicity fishes | LC50 | US EPA | > 121 mg/l | 96 h | Lepomis macrochirus | Static system | Fresh water | Experimental value |
| Acute toxicity crustacea | EC50 | DIN 38412-11 | 625 mg/l | 24 h | Daphnia magna | Static system | Fresh water | Experimental value |
| Toxicity algae and other aquatic plants | EC10 | OECD 201 | 308 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across |
| Long-term toxicity fish | NOEC | OECD 210 | ≥ 25.7 mg/l | 35 day(s) | Brachydanio rerio | Flow-through system | Fresh water | Read-across |
| Long-term toxicity aquatic crustacea | NOEC | EU Method | 50 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value |

Conclusion

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Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

tetrasodium ethylene diamine tetraacetate

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-------|-----------|---------------------|
| OECD 302B | 8 % | 28 day(s) | Experimental value |

Conclusion

Water

Contains non readily biodegradable component(s)

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

12.3. Bioaccumulative potential

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Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

potassium hydroxide

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|----------------------------|-------|-------------|---------------------|
| | Not applicable (inorganic) | | | |

tetrasodium ethylene diamine tetraacetate

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-----------|-----------|---------------------|---------------------|
| BCF | | 1.1 - 1.8 | 28 day(s) | Lepomis macrochirus | Experimental value |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Water ecotoxicity pH

pH shift

potassium hydroxide

Groundwater

Groundwater pollutant

Water ecotoxicity pH

pH shift

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

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Waste material code packaging (Directive 2008/98/EC).

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

SECTION 14: Transport information

Road (ADR)

14.1. UN number or ID number

| | |
|-----------|------|
| UN number | 1719 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | caustic alkali liquid, n.o.s. (potassium hydroxide) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 80 |
| Class | 8 |
| Classification code | C5 |

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 8 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

Rail (RID)

14.1. UN number or ID number

| | |
|-----------|------|
| UN number | 1719 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | caustic alkali liquid, n.o.s. (potassium hydroxide) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 80 |
| Class | 8 |
| Classification code | C5 |

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 8 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

Inland waterways (ADN)

14.1. UN number or ID number

| | |
|---------------------|------|
| UN number/ID number | 1719 |
|---------------------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | caustic alkali liquid, n.o.s. (potassium hydroxide) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|---------------------|----|
| Class | 8 |
| Classification code | C5 |

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 8 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

Sea (IMDG/IMSBC)

14.1. UN number or ID number

| | |
|-----------|------|
| UN number | 1719 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | caustic alkali liquid, n.o.s. (potassium hydroxide) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|-------|---|
| Class | 8 |
|-------|---|

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 8 |

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14.5. Environmental hazards

| | |
|--|----|
| Marine pollutant | - |
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

14.7. Maritime transport in bulk according to IMO instruments

| | |
|--------------------------|---|
| Annex II of MARPOL 73/78 | Not applicable, based on available data |
|--------------------------|---|

Air (ICAO-TI/IATA-DGR)

14.1. UN number or ID number

| | |
|---------------------|------|
| UN number/ID number | 1719 |
|---------------------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | caustic alkali liquid, n.o.s. (potassium hydroxide) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|-------|---|
| Class | 8 |
|-------|---|

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 8 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|------|
| Special provisions | A3 |
| Special provisions | A803 |

Passenger and cargo transport

| | |
|--|-------|
| Limited quantities: maximum net quantity per packaging | 0.5 L |
|--|-------|

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 0 g/l | |

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% anionic surfactants, <5% EDTA and salts thereof

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|---|---|
| <ul style="list-style-type: none"> · potassium hydroxide · tetrasodium ethylene diamine tetraacetate | <p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.</p> <p>The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all</p> | <p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p> |

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mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

National legislation Belgium

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No data available

National legislation The Netherlands

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| | |
|----------------------|---|
| Waterbezwaarlijkheid | B (4); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

National legislation France

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No data available

National legislation Germany

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| | |
|-----------------------|--|
| Lagerklasse (TRGS510) | 8 A: Brennbare ätzende Gefahrstoffe |
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
| potassium hydroxide | |
| TA-Luft | 5.2.1 |

National legislation Austria

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No data available

National legislation United Kingdom

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No data available

Other relevant data

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No data available

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

| | |
|--------------|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| LC0 | Lethal Concentration 0 % |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| LOAEC/LOAEL | Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level |
| NOAEC/NOAEL | No Observed Adverse Effect Concentration/No Observed Adverse Effect Level |
| NOEC/NOEL | No Observed Effect Concentration/No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information

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does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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