

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 6/24/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product code : 1911KNA

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaning product: component

1.3. Supplier

KÄRCHER NORTH AMERICA
6398 N Karcher Way
Aurora, 80019
United States
T 303-738-2400
info@karcherna.com

1.4. Emergency telephone number

Emergency number : 800-535-5053
For Chemical Emergency Call INFOTRAC 24hr/day 7days/week
Within USA and Canada: 1-800-535-5053
Outside USA and Canada: 1-352-323-3500
(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|---|
| Skin corrosion/irritation Category 1 | H314 | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face 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/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing
P363 - Wash contaminated clothing before reuse.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|-------------------------------|---------------------|-------|
| SODIUM HYDROXIDE | CAS-No.: 1310-73-2 | 1 – 5 |
| SODIUM METASILICATE | CAS-No.: 6834-92-0 | 1 – 5 |
| ALCOHOLS, C6-C12, ETHOXYLATED | CAS-No.: 68439-45-2 | 1 – 5 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service. Give oxygen or artificial respiration if necessary. |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Wash skin with plenty of water. Gently wash with plenty of soap and water. Take victim to a doctor if irritation persists. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists. |
| First-aid measures after ingestion | : If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water. Do not induce vomiting. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : Irritation of the respiratory tract. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. |
| Symptoms/effects after skin contact | : Causes skin irritation. Blisters. Burns. Itching. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. Causes serious eye damage. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires.

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5.2. Specific hazards arising from the chemical

| | |
|----------------------------|-------------------------------|
| Fire hazard | : No fire hazard. |
| Explosion hazard | : No direct explosion hazard. |
| Reactivity in case of fire | : Product is not explosive. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. Eliminate all ignition sources if safe to do so. In case of fire: Stop leak if safe to do so. Evacuate area. Fight fire with normal precautions from a reasonable distance. |
| Protection during firefighting | : Wear recommended personal protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Self-contained breathing apparatus. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Avoid contact with skin and eyes. Absorb spillage to prevent material-damage. Clean up any spills as soon as possible, using an absorbent material to collect it. Do not handle until all safety precautions have been read and understood. Warning! Product may cause floors to be slippery. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. Protective goggles. Protective clothing. Gloves. |
| Emergency procedures | : Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel. Do not breathe vapors. Ventilate spillage area. Mark the danger area. Notify experts. |

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. Use self-contained breathing apparatus. Fire-resistant protective clothing. |
| Emergency procedures | : Cover spill with non combustible material, e.g.: sand/earth. Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so. Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to spread into the environment. Do not allow to enter drains or water courses. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage. Dam up the liquid spill. Do not touch or walk on the spilled product. Stop leak, if possible without risk. |
| Methods for cleaning up | : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Absorb spilled material with sand or earth. Absorb spillage to prevent material-damage. Clean up immediately by sweeping or vacuum. This material and its container must be disposed of in a safe way, and as per local legislation. Clean contaminated surfaces with a soap solution. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|--|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Avoid breathing dust/fume/gas/mist/vapors/spray. Clean contaminated clothing. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Ensure good ventilation of the work station. Keep away from ignition sources/sparks. Keep away from naked flames/heat. |
| Hygiene measures | : Observe normal hygiene standards. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Technical measures | : Comply with applicable regulations. Ensure adequate ventilation, especially in confined areas. Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. |
| Incompatible products | : Oxidizing agent. Strong acids. |
| Incompatible materials | : Sources of ignition. |
| Storage area | : Keep container in a well-ventilated place. Keep container tightly closed. Store in a cool area. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|---|---------------------|
| HEAVY DUTY BROWN DEGREASER | |
| No additional information available | |
| SODIUM HYDROXIDE (1310-73-2) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL Ceiling | 2 mg/m ³ |
| SODIUM METASILICATE (6834-92-0) | |
| No additional information available | |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| No additional information available | |

8.2. Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. |
| Environmental exposure controls | : Avoid release to the environment. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

| |
|---|
| Hand protection: |
| Protective gloves |
| Eye protection: |
| Chemical goggles or safety glasses. Chemical goggles or face shield |

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Skin and body protection:

Chemical resistant apron. Protective clothing

Respiratory protection:

Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Color | : brown |
| Odor | : mild |
| Odor threshold | : No data available |
| pH | : 13.3 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 212 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

VOC CONTENT:

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

Avoid contact with hot surfaces. High temperature. Heat. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

SODIUM METASILICATE (6834-92-0)

| | |
|----------------------------|---|
| LD50 oral rat | 1152 – 1349 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 7 day(s)) |
| LD50 dermal rat | > 5000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 2.06 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 1152 mg/kg body weight |

ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2)

| | |
|--------------------|-------------------------------|
| LD50 oral rat | > 1000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit, Dermal) |

Skin corrosion/irritation : Causes severe skin burns.
pH: 13.3
Serious eye damage/irritation : Causes serious eye damage.
pH: 13.3
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

SODIUM METASILICATE (6834-92-0)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified

SODIUM METASILICATE (6834-92-0)

| | |
|--------------------------|--|
| NOAEL (oral,rat,90 days) | 227 – 237 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
|--------------------------|--|

Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Likely routes of exposure : Dermal. Inhalation. Skin and eye contact.
Symptoms/effects after inhalation : Irritation of the respiratory tract. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact : Causes skin irritation. Blisters. Burns. Itching.
Symptoms/effects after eye contact : Causes serious eye irritation. Causes serious eye damage.

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SECTION 12: Ecological information

12.1. Toxicity

| SODIUM HYDROXIDE (1310-73-2) | |
|--|---|
| LC50 - Fish [1] | 45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%) |
| EC50 - Daphnia [1] | 40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration) |
| SODIUM METASILICATE (6834-92-0) | |
| LC50 - Fish [1] | 210 mg/l (ISO 7346-1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value) |
| EC50 - Daphnia [1] | 1700 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

12.2. Persistence and degradability

| SODIUM HYDROXIDE (1310-73-2) | |
|---|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| SODIUM METASILICATE (6834-92-0) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| SODIUM HYDROXIDE (1310-73-2) | |
|---|----------------------------------|
| Bioaccumulative potential | Not bioaccumulative. |
| SODIUM METASILICATE (6834-92-0) | |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.01 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| SODIUM HYDROXIDE (1310-73-2) | |
|-------------------------------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

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SODIUM METASILICATE (6834-92-0)

| | |
|-----------------|---|
| Surface tension | No data available in the literature |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Corrosive liquids, n.o.s. (SODIUM HYDROXIDE), 8, II

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8

Hazard labels (DOT) : 8



14.4. Packing group

Packing group (DOT) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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| SODIUM HYDROXIDE (1310-73-2) | |
|------------------------------|---------|
| CERCLA RQ | 1000 lb |

15.2. International regulations

No additional information available

15.3. US State regulations

| HEAVY DUTY BROWN DEGREASER | |
|--|---|
| U.S. - California - Proposition 65 - Other information | ETHYLENE OXIDE (75-21-8); SULFURIC ACID (7664-93-9) |

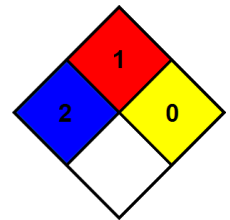
⚠ WARNING: This product can expose you to ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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| Full text of H-phrases | |
|------------------------|---|
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection : C - Safety glasses, Gloves, Synthetic apron

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.