

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product code : 1951KNA

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleansing product

#### 1.3. Supplier

KÄRCHER NORTH AMERICA  
6398 N Karcher Way  
Aurora, 80019  
United States  
T 303-738-2400  
[info@karcherna.com](mailto: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 2                           | H315 | Causes skin irritation    |
| Serious eye damage/eye irritation Category 1                   | H318 | Causes serious eye damage |
| Hazardous to the aquatic environment - Acute Hazard Category 3 | H402 | Harmful to aquatic life   |

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) : H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H402 - Harmful to aquatic life

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water  
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

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulations

### 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 METASILICATE          | CAS-No.: 6834-92-0  | 1 – 5 |
| TRIDECETH-8                  | CAS-No.: 78330-21-9 | 1 – 5 |
| C9-C11 ALCOHOLS, ETHOXYLATED | CAS-No.: 68439-46-3 | 1 – 5 |
| SODIUM XYLENE SULFONATE      | CAS-No.: 1300-72-7  | 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.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Serious damage to eyes.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 5.2. Specific hazards arising from the chemical

|  |                                      |
|--|--------------------------------------|
| Fire hazard                                      | : Heating increases the fire hazard. |
| Explosion hazard                                 | : No direct explosion hazard.        |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.       |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Do not enter fire area without proper protective equipment, including respiratory protection.  |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |   |
|------------------|---|
| General measures | : Do not handle until all safety precautions have been read and understood. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. |
|----------------------|--|

#### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | : Collect spillage.   |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                 |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.

## 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     | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.                         |
| Hygiene measures                  | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                    |  |
|--------------------|--|
| Technical measures | : Comply with applicable regulations.          |
| Storage conditions | : Store in a well-ventilated place. Keep cool. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|  |
|--|
| <b>VEHICLE PRE-SOAK</b>                          |
| No additional information available              |
| <b>SODIUM METASILICATE (6834-92-0)</b>           |
| No additional information available              |
| <b>SODIUM XYLENE SULFONATE (1300-72-7)</b>       |
| No additional information available              |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |
| No additional information available              |
| <b>TRIDECETH-8 (78330-21-9)</b>                  |
| No additional information available              |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

|  |
|--|
| <b>Hand protection:</b>  |
| Protective gloves  |
| <b>Eye protection:</b>   |
| Safety glasses   |
| <b>Skin and body protection:</b>   |
| Wear suitable protective clothing  |
| <b>Respiratory protection:</b>   |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |                     |
|----------------|---------------------|
| Physical state | : Liquid            |
| Appearance     | : Liquid.           |
| Color          | : Blue              |
| Odor           | : Floral odour      |
| Odor threshold | : No data available |
| pH             | : No data available |
| pH solution    | : 11.4 @ 5 DI Water |
| Melting point  | : Not applicable    |
| Freezing point | : No data available |
| Boiling point  | : No data available |

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|   |                     |
|---|---------------------|
| Flash point                                     | : No data available |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Not applicable.   |
| 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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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)) |

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
|--|---|
| 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  |
| <b>SODIUM XYLENE SULFONATE (1300-72-7)</b>       |   |
| LD50 oral rat                                    | > 7000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read-across, Oral, 14 day(s))                                |
| LD50 dermal rabbit                               | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Read-across, Dermal, 14 day(s))                                      |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |   |
| LD50 oral rat                                    | > 1000 mg/kg (Rat, Oral)  |
| LD50 dermal rat                                  | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |
| LC50 inhalation rat (mg/l)                       | > 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)   |
| ATE US (oral)                                    | 500 mg/kg body weight   |
| <b>TRIDECETH-8 (78330-21-9)</b>                  |   |
| LD50 oral rat                                    | > 8000 mg/kg (Rat, Oral)  |
| Skin corrosion/irritation                        | : Causes skin irritation.   |
| Serious eye damage/irritation                    | : Causes serious eye damage.  |
| Respiratory or skin sensitization                | : Not classified  |
| Germ cell mutagenicity                           | : Not classified  |
| Carcinogenicity                                  | : Not classified  |
| Reproductive toxicity                            | : Not classified  |
| STOT-single exposure                             | : Not classified  |
| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
| STOT-single exposure                             | May cause respiratory irritation.   |
| STOT-repeated exposure                           | : Not classified  |
| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
| 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)                    |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |   |
| NOAEL (oral,rat,90 days)                         | ≥ 500 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   |
| Symptoms/effects after skin contact              | : Irritation.   |
| Symptoms/effects after eye contact               | : Serious damage to eyes.   |
| <b>SECTION 12: Ecological information</b>        |   |
| <b>12.1. Toxicity</b>                            |   |
| Ecology - general                                | : Harmful to aquatic life.  |
| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
| LC50 - Fish [1]                                  | 210 mg/l (ISO 7346-1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value)   |

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
|--|---|
| EC50 - Daphnia [1]                               | 1700 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)       |
| <b>SODIUM XYLENE SULFONATE (1300-72-7)</b>       |   |
| LC50 - Fish [1]                                  | > 1000 mg/l (EPA OTS 797.1400, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value) |
| EC50 - Daphnia [1]                               | > 1000 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)       |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |   |
| LC50 - Fish [1]                                  | 5 – 7 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                 |
| EC50 - Daphnia [1]                               | 2.5 mg/l Test organisms (species): Daphnia magna  |

### 12.2. Persistence and degradability

| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
|--|---|
| Persistence and degradability                    | Biodegradability: not applicable.             |
| Chemical oxygen demand (COD)                     | Not applicable (inorganic)                    |
| ThOD   | Not applicable (inorganic)                    |
| <b>SODIUM XYLENE SULFONATE (1300-72-7)</b>       |   |
| Persistence and degradability                    | Readily biodegradable in water.               |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |   |
| Persistence and degradability                    | Biodegradability in water: no data available. |
| <b>TRIDECETH-8 (78330-21-9)</b>                  |   |
| Persistence and degradability                    | Readily biodegradable in water.               |

### 12.3. Bioaccumulative potential

| <b>SODIUM METASILICATE (6834-92-0)</b>           |   |
|--|---|
| Bioaccumulative potential                        | Bioaccumulation: not applicable.  |
| <b>SODIUM XYLENE SULFONATE (1300-72-7)</b>       |   |
| Partition coefficient n-octanol/water (Log Pow)  | -3.12 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential                        | Not bioaccumulative.  |
| <b>C9-C11 ALCOHOLS, ETHOXYLATED (68439-46-3)</b> |   |
| Bioaccumulative potential                        | No bioaccumulation data available.                                      |
| <b>TRIDECETH-8 (78330-21-9)</b>                  |   |
| Bioaccumulative potential                        | No bioaccumulation data available.                                      |

### 12.4. Mobility in soil

| <b>SODIUM METASILICATE (6834-92-0)</b> |   |
|--|---|
| Surface tension                        | No data available in the literature                   |
| Ecology - soil                         | No (test)data on mobility of the substance available. |

# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| SODIUM XYLENE SULFONATE (1300-72-7) |   |
|-------------------------------------|---|
| Surface tension                     | 71 mN/m (20 °C, 90 %, EU Method A.5: Surface tension) |
| 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.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### 14.1. UN number

DOT NA No : UN1760

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Corrosive liquids, n.o.s. (SODIUM METASILICATE)

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : 8  
Hazard labels (DOT) : 8



### 14.4. Packing group

Packing group (DOT) : III

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

**DOT**  
UN-No.(DOT) : UN1760

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

Not applicable



# VEHICLE PRE-SOAK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 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

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

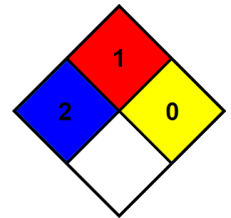
**⚠ WARNING:** This product can expose you to ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Full text of H-phrases |                           |
|------------------------|---------------------------|
| H315                   | Causes skin irritation    |
| H318                   | Causes serious eye damage |
| H402                   | Harmful to aquatic life   |

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 : B - Safety glasses, Gloves

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.