

Material Safety Data Sheet

Quick Suds

1. Product and company identification

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|----------------------|---|-----------------------------|-------------------------------|
| Product name | Quick Suds | In case of emergency | 1-800-843-6174 |
| Code | 358FS | Validation date | 11/8/2011. |
| Material uses | High foam heavy duty degreaser | Print date | 11/8/2011. |
| Manufacturer | Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122 | Responsible name | Regulatory Affairs Department |

Hazardous Material Information System (U.S.A.)

| | | |
|---------------------|---|-------------------|
| Health | 3 | HAZARD RATING |
| Flammability | 0 | 4 = Extreme |
| Physical hazards | 0 | 3 = High |
| Personal protection | C | 2 = Moderate |
| | | 1 = Slight |
| | | 0 = Insignificant |

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

| | |
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| Emergency overview | WARNING! HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. Harmful if swallowed. May be harmful if absorbed through skin. Severely irritating to the eyes and skin. Do not breathe vapor or mist. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling. |
|---------------------------|---|

Potential acute health effects due to overexposure

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| Inhalation | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Ingestion | May be toxic if swallowed. May cause burns to mouth, throat and stomach. |
| Skin | Corrosive to the skin. May cause severe burns. |
| Eyes | Corrosive to eyes. May cause severe burns. |

Potential chronic health effects due to overexposure

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|------------------------------|---|
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Teratogenicity | No known significant effects or critical hazards. |
| Developmental effects | No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |

See toxicological information (section 8)

3. Composition/information on ingredients

| Name | CAS number | % |
|--|------------|-------|
| Benzenesulfonic acid, C10-16-alkyl derivs. | 68584-22-5 | 1 - 5 |
| tetrasodium ethylene diamine tetraacetate | 64-02-8 | 1 - 5 |
| Amides, coco, N,N-bis(hydroxyethyl) | 68603-42-9 | 1 - 5 |
| disodium metasilicate | 6834-92-0 | 1 - 5 |
| SODIUM CARBONATE | 497-19-8 | 1 - 5 |
| Propan-2-ol | 67-63-0 | 1 - 5 |
| Potassium hydroxide | 1310-58-3 | 1 - 5 |

SARA 313 (Form R - Reporting requirements)

| Product name | CAS number | Concentration |
|--------------|------------|---------------|
| Propan-2-ol | 67-63-0 | 1.365 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Max acceptable dosage |
|-----------------|--------|--------------|---------------------------|-----------------------|
| sulphuric acid | Yes. | No. | No. | No. |

4. First aid measures

| | |
|-----------------------------------|---|
| Eye contact | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. |
| Skin contact | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. |
| Inhalation | Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| Ingestion | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately. |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

5. Fire-fighting measures

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| Flammability of the product | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Extinguishing media | |
| Suitable | Use an extinguishing agent suitable for the surrounding fire. |
| Special exposure hazards | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hazardous thermal decomposition products | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Flash point | Closed cup: Not applicable |

6. Control and preventive measures

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

| Ingredient | Exposure limits |
|---------------------|---|
| Propan-2-ol | <p>OSHA PEL (United States, 6/2010). TWA: 400 ppm 8 hour(s). TWA: 980 mg/m³ 8 hour(s).</p> <p>ACGIH TLV (United States, 2/2010). TWA: 200 ppm 8 hour(s). STEL: 400 ppm 15 minute(s).</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hour(s). TWA: 980 mg/m³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 1225 mg/m³ 15 minute(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 400 ppm 10 hour(s). TWA: 980 mg/m³ 10 hour(s). STEL: 500 ppm 15 minute(s). STEL: 1225 mg/m³ 15 minute(s).</p> |
| Potassium hydroxide | <p>OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m³</p> <p>ACGIH TLV (United States, 2/2010). C: 2 mg/m³</p> <p>NIOSH REL (United States, 6/2009). TWA: 2 mg/m³ 10 hour(s).</p> |

Personal protection

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| Respiratory | None required. However, use of adequate ventilation is good industrial practice. |
| Hands | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Skin | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Eyes | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. |

Methods for cleaning up

6. Control and preventive measures

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| Small spill | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Waste disposal | Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. |

7. Physical and chemical properties

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| Physical state | Liquid | Boiling/condensation point | 100°C (212°F) |
| Color | Amber [Light] | Melting/freezing point | 0°C (32°F) |
| Odor | Bland | Vapor pressure | <4 kPa (<30 mm Hg) [20°C] |
| VOC | 1.5% | Vapor density | <1 [Air = 1] |
| pH | 12.5 to 13 | Weight per Gallon: | 9.19 lbs./gal. |
| 1% pH: | 9.5 | Specific Gravity: | 1.10 gm/ml |
| Solubility | Complete | | |

8. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|----------------------------------|---------|------------------------|----------|
| Amides, coco, N,N-bis(hydroxyethyl) | LD50 Oral | Rat | 12400 uL/kg | - |
| Benzenesulfonic acid, C10-16-alkyl derivs. | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 775 mg/kg | - |
| tetrasodium ethylene diamine tetraacetate | LD50 Intraperitoneal | Rat | >2 g/kg | - |
| | LD50 Oral | Rat | 10 g/kg | - |
| Propan-2-ol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 2735 mg/kg | - |
| | LD50 Intravenous | Rat | 1088 mg/kg | - |
| | LD50 Oral | Rat | 5045 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| | TDL _o Intraperitoneal | Rat | 800 mg/kg | - |
| disodium metasilicate | LC50 Inhalation Gas. | Rat | 16000 ppm | 8 hours |
| | LD50 Oral | Rat | 1153 mg/kg | - |
| | LD50 Oral | Rat | >1000 mg/kg | - |
| SODIUM CARBONATE | LD50 Oral | Rat | 4090 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 2300 mg/m ³ | 2 hours |
| | LD50 Oral | Rat | 273 mg/kg | - |

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|---------------------------|---------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | Not regulated | - | - | - | | - |

PG* : Packing group