

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : STOUT  
Product code : MCS-245

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

Solid dish detergent. Machine use only.

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

Beacon Labs  
19 Elmwood Avenue  
Kansas City, 66103 - USA  
T 1-800-643-9070; 1-913-713-4120

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (GHS-US)**

Skin Corr. 1A H314

Full text of H-phrases: see section 16

**Product AT USE DILUTION**

**Not a hazardous substance or mixture**

**2.2. Label elements****GHS-US labeling****Product AS SOLD**

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P264 - Wash 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 lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center/doctor  
P321 - Specific treatment (see section 4)  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to according to local, state, and federal regulations.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Product AT USE DILUTION****Personal protective equipment:**

**Eye protection : No special protective equipment required.**

**Hand protection : No special protective equipment required.**

**STOUT****Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, February 19, 2019 / Rules and Regulations

**Skin protection : No special protective equipment required.****Respiratory protection : No personal respiratory protective equipment normally required.****2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

**3.2. Mixture**

| Name   | Product identifier | %          | Classification (GHS-US)                            |
|--|--------------------|------------|--|
| sodium hydroxide, conc=50%, aqueous solution | (CAS No) 1310-73-2 | 30         | Skin Corr. 1A, H314                                |
| sodium hydroxide                             | (CAS No) 1310-73-2 | 11.76 - 12 | Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1A, H314 |

Full text of H-phrases: see section 16

**Product AT USE DILUTION****No reportable levels of hazardous ingredients****SECTION 4: First aid measures****4.1. Description of first aid measures**

|               |   |
|---------------|---|
| Eye contact:  | Immediately flush eye with copious amounts of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION. |
| Skin contact: | Immediately flush skin with copious amounts of cool, running water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before re-use.  |
| Inhalation:   | Move victim to fresh air and keep at rest position. If qualified give oxygen or artificial respiration as needed.   |
| Ingestion:    | DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Seek medical attention immediately.  |
| First-aid:    | DO NOT use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration With the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.   |

**Product AT USE DILUTION**

|                      |  |
|----------------------|--|
| <b>Eye contact:</b>  | <b>Rinse with plenty of water.</b>                           |
| <b>Skin contact:</b> | <b>Rinse with plenty of water.</b>                           |
| <b>Inhalation:</b>   | <b>Get medical attention if symptoms occur.</b>              |
| <b>Ingestion:</b>    | <b>Rinse mouth. Get medical attention if symptoms occur.</b> |

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

Skin/eye burns. Corrosive to mouth and throat. Ingestion can cause severe and rapid burning of mouth, throat and digestive tract. Mucous membrane irritant.

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

Notes to physician: If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Do not use carbon dioxide (CO<sub>2</sub>)

The material is not combustible. Use extinguishing media appropriate for surrounding fire. Use water spray or fog, foam, dry chemical, alcohol foam, if product is involved.

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors. Corrosive material. Causes severe burns by all exposure routes. Combustion products: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sodium oxides

**5.3. Advice for firefighters**

Wet product is slippery. Avoid physical contact with wet material; highly caustic. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.

Explosion Data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

**SECTION 6: Accidental release measures**

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

**6.1.1. For non-emergency personnel**

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Avoid breathing dust, fume, gas, mist, vapors, and spray. Wash face, hands and any exposed skin thoroughly after handling.

**6.1.2. For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

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

Neutralization is normally necessary before waste water is discharged into water treatment plants. Keep out of waterways. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Sweep up solids, soak up if liquified. Transfer to appropriate waste container. Neutralize residue with mild acid and flush with water. Dispose of in accordance with local, state, and federal regulations.

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product. Always use personal protective equipment.

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

Store locked up. Keep container in well-ventilated area. Keep container tightly closed when not in operation. Store away from incompatible materials. Keep out of the reach of children.

INCOMPATIBLE MATERIALS: Prolonged contact with aluminum (Al), copper (Cu), lead (Pb), zinc (Zn), tin (Sn) and other soft metals. Incompatible with ammonia and other clean products, strong acids, strong oxidizers and halogens.

**7.3. Specific end use(s)**

Solid dish detergent. Machine use only.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

|   |                                    |                     |
|---|------------------------------------|---------------------|
| <b>STOUT</b>  |                                    |                     |
| ACGIH   | Not applicable                     |                     |
| OSHA  | Not applicable                     |                     |
| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b> |                                    |                     |
| ACGIH   | ACGIH Ceiling (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> |

| sodium hydroxide, conc=50%, aqueous solution (1310-73-2) |                                     |                      |
|--|-------------------------------------|----------------------|
| ACGIH  | Remark (ACGIH)                      | URT, eye, & skin irr |
| OSHA   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>  |
| sodium hydroxide (1310-73-2)                             |                                     |                      |
| ACGIH  | ACGIH Ceiling (mg/m <sup>3</sup> )  | 2 mg/m <sup>3</sup>  |
| ACGIH  | Remark (ACGIH)                      | URT, eye, & skin irr |
| OSHA   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>  |

**Product AT USE DILUTION**

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protective equipment:**

Eye protection : No special protective equipment required.  
 Hand protection : No special protective equipment required.  
 Skin protection : No special protective equipment required.  
 Respiratory protection : No personal respiratory protective equipment normally required.

**8.2. Exposure controls**

Engineering controls: Ensure adequate ventilation and that running water is available for washing eyes and skin.

Individual protection: Personal Protective Equipment (PPE)

Eye/Face Protection: Splash-proof chemical goggles or face shield.

Skin/Body Protection: Impervious rubber, alkali-proof protective gloves. Impervious rubber boots and apron.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures: Remove and wash contaminated clothing before re-use. SECTION 9: Physical and chemical properties**

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

|   |   |
|---|---|
| Physical state                              | : Solid   |
| Color                                       | : White   |
| Odor  | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour(s):<br>Odourless Aromatic odour |
| Odor threshold                              | : No data available   |
| pH  | : > 12  |
| Melting point                               | : No data available   |
| Freezing point                              | : No data available   |
| Boiling point                               | : No data available   |
| Flash point                                 | : No data available   |
| Relative evaporation rate (butyl acetate=1) | : No data available   |
| Flammability (solid, gas)                   | : No data available   |
| Explosion limits                            | : No data available   |
| Explosive properties                        | : No data available   |
| Oxidizing properties                        | : No data available   |
| Vapor pressure                              | : No data available   |
| Relative density                            | : No data available   |
| Relative vapor density at 20 °C             | : No data available   |
| Solubility                                  | : Water: Solubility in water of component(s) of the mixture :<br>•: •: •: 42 g/100ml •: 31.7 g/100ml •: 22 g/100ml •: 15 g/100ml •: 44.45 g/100ml<br>•:   |
| Log Pow                                     | : No data available   |
| Log Kow                                     | : No data available   |

Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Viscosity : No data available  
 Viscosity, kinematic : No data available  
 Viscosity, dynamic : No data available

**Product AT USE DILUTION:**

**Liquid**

**Colourless**

**Odourless**

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Prolonged contact with aluminum (Al), copper (Cu), lead (Pb), zinc (Zn), tin (Sn) and other soft metals. Incompatible with ammonia and other clean products, strong acids, or strong oxidizers.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

See section 10.1.

**10.4. Conditions to avoid**

See section 10.1.

**10.5. Incompatible materials**

Prolonged contact with aluminum (Al), copper (Cu), lead (Pb), zinc (Zn), tin (Sn) and other soft metals. Incompatible with ammonia and other clean products, strong acids, or strong oxidizers.

**10.6. Hazardous decomposition products**

Combustion products: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sodium oxides

Hydrogen gas : with prolonged exposure to the metals listed in Section 10.1

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product AS SOLD**

Acute toxicity : Not classified

| <b>sodium hydroxide (1310-73-2)</b> |                                 |
|-------------------------------------|---------------------------------|
| LD50 dermal rabbit                  | 1350 mg/kg (Rabbit; Literature) |
| ATE US (dermal)                     | 1350.000 mg/kg body weight      |

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
 pH: > 12

Serious eye damage/irritation : Not classified  
 pH: > 12

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

**Product AT USE DILUTION**

**Eyes** : Health injuries are not known or expected under normal use.  
**Skin** : Health injuries are not known or expected under normal use.  
**Ingestion** : Health injuries are not known or expected under normal use.  
**Inhalation** : Health injuries are not known or expected under normal use.  
**Chronic Exposure** : Health injuries are not known or expected under normal use.

**SECTION 12: Ecological information**

**12.1. Toxicity**

| <b>sodium hydroxide (1310-73-2)</b> |   |
|-------------------------------------|---|
| LC50 fish 1                         | 45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%) |
| EC50 Daphnia 1                      | 40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)               |
| LC50 fish 2                         | 189 mg/l (48 h; Leuciscus idus)   |
| TLM fish 1                          | 99 mg/l (48 h; Lepomis macrochirus)                                     |
| TLM fish 2                          | 125 ppm (96 h; Gambusia affinis)  |

**12.2. Persistence and degradability**

| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b> |  |
|---|--|
| Persistence and degradability                                   | Biodegradability: not applicable. No (test)data on mobility of the components available. |
| <b>sodium hydroxide (1310-73-2)</b>                             |  |
| Persistence and degradability                                   | Biodegradability: not applicable. No (test)data on mobility of the substance available.  |
| Biochemical oxygen demand (BOD)                                 | Not applicable   |
| Chemical oxygen demand (COD)                                    | Not applicable   |
| ThOD  | Not applicable   |
| BOD (% of ThOD)   | Not applicable   |

**12.3. Bioaccumulative potential**

| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b> |  |
|---|--|
| Bioaccumulative potential                                       | Does not contain bioaccumulative component(s). |
| <b>sodium hydroxide (1310-73-2)</b>                             |  |
| Bioaccumulative potential                                       | Bioaccumulation: not applicable.               |

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

Effect on the global warming : No known ecological damage caused by this product.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose of contents/container according to local, state, and federal regulations.

**Product AT USE DILUTION**

**Product can be flushed down a drain.**

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3262 Corrosive solid, basic, inorganic, n.o.s., 8, II

UN-No.(DOT) : UN3262

Proper Shipping Name (DOT) : Corrosive solid, basic, inorganic, n.o.s.

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

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Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 212

DOT Packaging Bulk (49 CFR 173.xxx) : 240

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.  
IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.  
T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 15 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 50 kg

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

**Additional information**

Other information : No supplementary information available.

**ADR**

No additional information available

**Transport by sea**

UN-No. (IMDG) : 3262

Proper Shipping Name (IMDG) : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : II - substances presenting medium danger

**Air transport**

UN-No. (IATA) : 3262

Proper Shipping Name (IATA) : Corrosive solid, basic, inorganic, n.o.s.

Class (IATA) : 8 - Corrosives

Packing group (IATA) : II - Medium Danger

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

|   |         |
|---|---------|
| <b>STOUT</b>  |         |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory |         |
| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b>               |         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |         |
| Not listed on the United States SARA Section 313                              |         |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)                  | 1000 lb |
| <b>sodium hydroxide (1310-73-2)</b>   |         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |         |
| Not listed on the United States SARA Section 313                              |         |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)                  | 1000 lb |

**15.2. International regulations**

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**National regulations**

No additional information available

**15.3. US State regulations**

|   |  |
|---|--|
| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b> |  |
| U.S. - Massachusetts - Right To Know List                       |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List      |  |
| U.S. - Pennsylvania - RTK (Right to Know) List                  |  |
| <b>sodium hydroxide (1310-73-2)</b>                             |  |
| U.S. - Massachusetts - Right To Know List                       |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List      |  |
| U.S. - Pennsylvania - RTK (Right to Know) List                  |  |

**SECTION 16: Other information**

Full text of H-phrases:

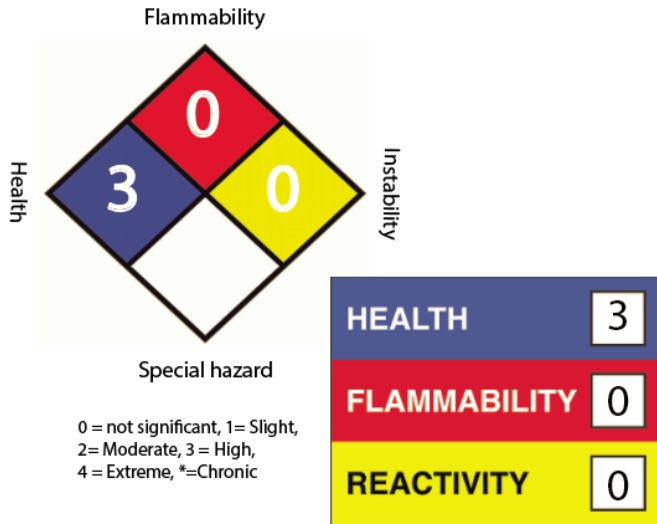
|                       |   |
|-----------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4      |
| Skin Corr. 1A         | Skin corrosion/irritation Category 1A   |
| H312                  | Harmful in contact with skin            |
| H314                  | Causes severe skin burns and eye damage |



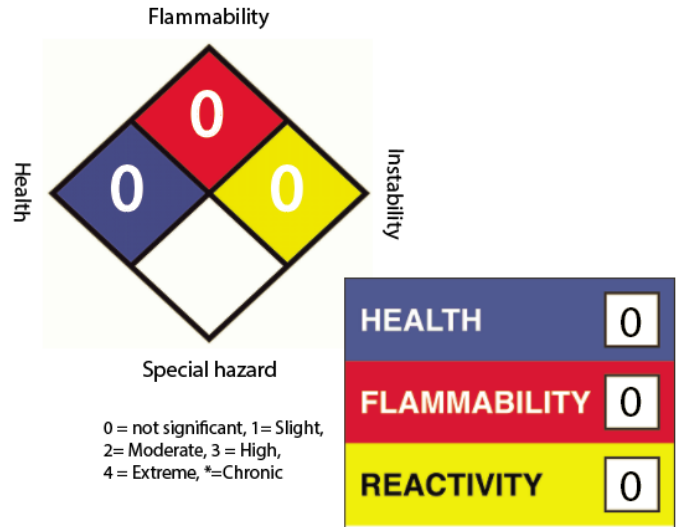
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Product AS SOLD:



Product AT DILUTION:



SDS US (GHS HazCom 2012)

*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*