



SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product form Mixture
Product name SOLID SAFE
Product code

1.2. Relevant identified uses of the Substance or Mixture

Solid dish detergent. Machine use only

1.3. Details of the Supplier of the Safety Data Sheet

Solids, inc. d/b/a Beacon Labs
8714 E. 16th Street
Kansas City, MO 64126
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 (GHS-US)

Skin Corrosion Category 1A
Serious Eye Damage Category 1

2.2. Label Elements GHS-US Labeling

Hazard pictograms
(GHS-US)



Signal word (GHS-US)

Danger

Hazard statements
(GHS-US)

H314 - Causes severe skin burns and eye damage

Precautionary
statements (GHS-US)

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eyeprotection/ face protection.
P301 + P330 + P331 IF SWALLOWED Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair) Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.



P304 + P340 + P310 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

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

Chemical Name	CAS#	% Concentration
Sodium Hydroxide	1310-73-2	25%-35%
Sodium Metasilicate	6834-92-0	5%-10%

3.2. Mixture

Substance / Mixture	Mixture
Mixture	

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	Not applicable
Ingestion	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious to an unconscious person. Seek medical attention immediately



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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.

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 (CO₂) 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 (CO₂), 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.

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

No additional information available

6.2. Environmental Precautions

Avoid release to the environment.

6.3. Methods and Material for Containment and Clean Up



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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.

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. 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.

SECTION 8 Exposure Controls/Personal Protection

8.1. Control Parameters

Sodium Hydroxide		
ACGIH	Ceiling	2 mg/m ³
NIOSH REL	Ceiling	2 mg/m ³
OSHA Z1	TWA	2 mg/m ³

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.

SECTION 9 Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance	Solid
Color	White



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Odor	Mild
pH	> 13
Flash Point	No data available
Odor Threshold	No data available
Melting Point/freezing Point	No data available
Initial Boiling Point	> 100 °C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion limit	No data available
Lower Explosion limit	No data available
Vapor Pressure	No data available
Relative Vapor Density	No data available
Relative Density	No data available
Water Solubility	Soluble
Solubility in Other Solvents	No data available
Partition Coefficient n-octanol/water	No data available
Autoignition Temperature	No data available
Thermal Decomposition	No data available
Viscosity, Kinematic	No data available
Explosive Properties	No data available
VOC	

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

No dangerous reaction known under conditions of normal use

10.4. Conditions to Avoid

None known

10.5. Incompatible Materials



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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 (CO₂), sodium oxides
Hydrogen gas with progloned exposure to the metals listed in Section 10.

SECTION 11 Toxicological Information

11.1. Information on Toxicological Effects

Acute Oral Toxicity	1350 mg/kg (Rabbit)
Acute inhalation Toxicity	No data available
Acute Dermal Toxicity	1350.000 mg/kg body weight
Skin Corrosion/Irritation	Causes severe skin burns.
Serious Eye Damage/Irritation	Irreversible effects on the eye
Respiratory or Skin Sensitization	Not classified
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

SECTION 12 Ecological Information

12.1. Toxicity

Toxic to aquatic life.

Sodium Hydroxide (1310-73-2)

LC50 fish 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
EC50	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
Daphnia 1	
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

No (test) data on mobility of the substance available.

12.3. Bioaccumulative Potential

Bioaccumulation not applicable

12.4. Mobility in Soil

No additional information available

SECTION 13 Disposal Considerations


13.1. Waste Treatment Methods

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

SECTION 14 Transport Information

14.1 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 8 - Corrosive
Hazard labels (DOT)	
Packing group (DOT)	II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	212
DOT Packaging Bulk (49 CFR 173.xxx)	240
DOT Special Provisions (49 CFR 172.102)	<p>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).</p> <p>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.</p> <p>IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.</p> <p>T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)</p> <p>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.</p>



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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	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

14.2 ADR

No additional information available

14.3 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

14.4 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

EPCRA Emergency Planning and Community Right to Know

15.1 CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	2864 2200

15.2 SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

15.3 SARA 311/312 Hazards

Skin corrosion or irritation Serious eye damage or eye irritation

15.4 SARA 302

This material does not contain any components with a section 302 EHS TPQ.



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15.5 SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

15.6 California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

15.7 The Ingredients of this Product are reported in the following Inventories

United States TSCA Inventory All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL) All components of this product are on the Canadian DSL

SECTION 16 Other information

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

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