

01 Chemical Product and Company Identification

Product Name Surge Builder
Product Use Alkalinity Booster
Product Code 3006
For Medical Emergency Call 'Chemtrec' 1-800-424-9300
Supplier's Information Santec Inc.
 1420 East Linden Avenue, Linden NJ 07036

02 Hazards Identification

Emergency Overview

Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

Acute Effects

Eyes: Severely corrosive to the eyes. Causes severe burns. Eye exposure may cause severe and permanent eye injury (blindness).

Skin: Severely corrosive to the skin. Causes severe burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath.

Ingestion: Toxic if swallowed. May cause burns to mouth, throat and stomach. May be fatal if swallowed.

Chronic Effects

Carcinogenicity: No known critical effects or critical hazards.

Product /Ingredient Name: Not available.

*Hazard Determination System (HDS):

Health	3
Reactivity	0
Flammability	0

03 Composition/ Information on Ingredients

Name of Hazardous Ingredients	CAS No.	WT. %
Sodium Hydroxide	1310-73-2	15-25
Tetra Sodium Ethylenediamine Tetraacetate	64-02-8	1-2

04 First Aid Measures

Eye Contact: Check for and remove any contact lenses. Flush with large quantities of water, holding eyelids open for 15 minutes. Seek medical attention immediately.

Skin Contact: Wash skin with copious amounts of water. Seek medical attention immediately.

Inhalation: Remove to fresh air. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Drink copious amounts of water. Seek medical attention immediately.

05 Fire Fighting Measures

Suitable Fire Extinguishing Media: Use water spray, fog or foam

Specific Hazards Arising from the Chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous Thermal Decomposition Products: Decomposition products may include following materials; Carbon Dioxides, Carbon Monoxides.

Specific Fire-Fighting Methods: 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.

Specific 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.

06 Accidental Release Measures

Spill Clean Up: Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move Containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimum hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.

07 Handling and Storage

Handling: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.

Storage: Store between the following temperatures: 4.44 to 48.9°C (40 to 120°F). 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 (see section 10) 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.

08 Exposure Controls/ Personal Protection

Ingredient Name

Sodium Hydroxide

Exposure Limits

OSHA PEL 2 mg/m³

Personal Protective Equipment (PPE)

Eyes: Splash goggles or face shield.

Skin: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Body: Face shield, full suit, vapor respirator, boots and gloves.

Respiratory: A self contained breathing apparatus should be used to avoid inhalation of product. Be sure to use an approved /certified respirator or equivalent.

09 Physical and Chemical Properties

Physical State

Clear liquid

Color

Tan

Odor

Bland

pH

≥ 13

Flash point

None

Explosion limits

Not available

Flammability (solid, gas)

Not available

Melting point

Not available

Boiling point

>100°C (212°F)

Evaporation rate (butyl acetate = 1)

Not available

Vapor pressure

Not available

Vapor density

Not available

Relative density

1.26 (Water = 1)

Solubility

Easily soluble in the following materials: cold water and hot water

Partition coefficient n-octano/water

Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Odor threshold

Not available

Viscosity

Kinematic (room temperature): ≤ 10 cSt (CPS)

10 Stability and Reactivity

Stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Strong acids.

Materials to avoid: Reactive with oxidizing agents, reducing agents, metals, acids.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition should not be produced. If heated, see section 05.

11 Toxicological Information

Product /Ingredient Name	Result	Species	Dose
Sodium Hydroxide	LD50 Oral	Rat	500 mg/kg
Tetra Sodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	3050 mg/kg

12 Ecological Information

N/A

13 Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

14 Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label
DOT Classification	UN3266	Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide)	8	III	
Note: DOT classification applies to most package sizes. For specific container size classifications or size exceptions, refer to the bill of lading with your shipment.					
PG*: Packing Group					

15 Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313	Product name	CAS number	Concentration
Form R-Reporting requirements	No listed substance		

16 Ecological Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of Issue: 11/10/2014