



IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IN IHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/Physician  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth. Do not induce vomiting

**Precautionary Statements – Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements –Disposal**

Disposed of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life

**3. Composition/information on ingredients**

<u>Name</u>	<u>CAS number</u>	<u>%</u>
SODIUM HYDROXIDE	1310-73-2	25-30
SODIUM TRIPOLYPHOSPHATE	7758-29-4	10-20
SODIUM METASILICATE	6834-92-0	15-20
TRICHLORO-S-TRIAZINETRIONE, DRY	87-90-1	5-10

**4. First aid measures**

<b>Eye contact:</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician
<b>Skin contact:</b>	IF ON SKIN (HAIR): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention.
<b>Inhalation:</b>	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.
<b>Ingestion:</b>	Do not induce Vomiting: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Drink large quantities of water without delay. Give large quantities of water or milk. Immediately call a POISON CENTER or doctor/physician.
<b>Note to physician</b>	Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically. Contact poison treatment immediately.

**5. Fire-fighting measures**

<b>Flash point:</b>	N/A
<b>Flammability of the product:</b>	Non-Flammable / Non-combustible
<b>Extinguishing media:</b>	
<b>Suitable:</b>	In case of fire in surroundings, all extinguishing agents allowed
<b>Special fire fighting procedures:</b>	Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.
<b>Unusual explosion and fire procedures</b>	Noncombustible. Isolate from acids. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures**

<b>Personal precautions:</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Environmental precautions:</b>	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See section 12, Ecological information. See Section 13, Disposal Considerations, for additional information

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike spill area and cap leaking containers as necessary to prevent further spreading of spilled material. Absorb spilled liquid with suitable material such as dirt or sand.

**Methods for clean up** Pick up and transfer to properly labeled containers.

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## 7. Handling and storage

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**Handling:** Handle in accordance with food industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray.

**Storage** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep from freezing.

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## 8. Exposure controls/personal protection

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### Exposure Guidelines

Chemical name	ACGIH-TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Sodium metasilicate	2 mg/m <sup>3</sup>	2mg/m <sup>3</sup>	

**Consult local authorities for acceptable exposure limits.**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Local exhaust ventilation recommended. Eye wash stations. Showers.

### Individual-protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coats, apron or coveralls, as appropriate to prevent skin contact

**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.

**General Hygiene considerations** Remove and wash contaminated clothing before re-use.

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## 9. Physical and chemical properties

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Physical state	Granular powder
Flash Point	N/A
Color	White
pH	N/A
Boiling/condensation point	N/A
Specific Gravity	N/A
Vapor pressure	N/A
Solubility in water	Excellent at use concentrations

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## 10. Stability reactivity

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**Stability** Stable under recommended storage conditions

**Possibility of hazardous reactions** None under normal processing

**Conditions to avoid** Do not use on aluminum, soft metals, or painted surfaces

**Incompatible Materials** Acids, Aluminum, Tin, Zinc, Copper, Nitrocarbons, Halocarbons, Strong Oxidizers

**Hazardous Decomposition Products** Hydrogen gas by reaction with incompatible metals

## 11. Toxicological information

### Information on likely routes of exposure

<b>Eye Contact</b>	Causes severe eye damage
<b>Skin Contact</b>	Causes severe skin burns, can cause tissue destruction
<b>Inhalation</b>	Harmful if inhaled, can irritate nose, throat and lungs
<b>Ingestion</b>	Harmful if swallowed, causes severe burns to gastrointestinal tract

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC 50
Sodium Hydroxide 1310-73-2	-	=1350 mg/kg (Rabbit)	-
Sodium metasilicate 6834-92-0	=600 mg/kg ( Rat )	-	-
Trichloro-s-triazinetrione 87-90-1	809 mg/kg (Rat)	>2000 mg/kg (Rabbit) >5000 mg/kg (Rat)	>0.09 - <0.29 mg/L (4 hr-Rat)

### Toxicological Data on Ingredients:

Sodium triphosphate: ORAL (LD50): Acute: 3900 mg/kg [Rat.]. 3100 mg/kg [Mouse].

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Not classifiable as a human carcinogen.

### Numerical Measures of Toxicity-Product

Not determined

## 12. Ecological information

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Sodium Hydroxide 1310-73-2		45.4: 96h Oncorhynchus mykiss mg/L LC50 Static		
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi- static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50	
Trichloro-s-triazinetrione 87-90-1	This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water unless in accordance with the requirements of a National Pollutant discharge elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your local or regional regulatory water boards and/or other appropriate regulatory offices.			

### Persistence/Degrability

Not Determined

### Biopersistence

Not Determined

**Mobility**

Not Determined

**Other Adverse Effects**

Not Determined

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### 13. Disposal considerations

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**Waste disposal:**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. 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. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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### 14. Transport information

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Regulatory Information	UN number	Proper shipping name	Classes	PG*
DOT Classification Corrosive Solid	1759	Sodium Hydroxide, Sodium Metasilicate	8	II

\*PG: Packing group

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### 15. Regulatory information

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**International Inventories**

Not determined

**US Federal Regulations**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Caustic Soda 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA –Reportable Quantities	CWA – Toxic Pollutants	CWA –Priority Pollutants	CWA- Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb			X

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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**16. Other information**

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<b><u>HMS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Personal Protection</b>
	2	0	1	C

 **Indicates information that has changed from previously issued version.**

**Disclaimer**

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet