

Precautionary Statements – Preventions

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response

Immediately call A POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing immediately call a POISON CONTROL or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
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
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 with long lasting effects
Harmful to aquatic life

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Sodium Hydroxide	1310-73-3	T/S
Sodium Di-Chloro-Isocyanurate	51580-86-0	T/S

4. First aid measures

Eye contact: 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

Skin contact: If on Skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention.

Inhalation: 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.

Ingestion: If Swallowed: rinse mouth. Do NOT induce vomiting. Drink large quantities of water without delay. Drink milk or milk of magnesia. Immediately call a POISON CENTER or doctor/physician.

Symptoms **Most important symptoms and effects:** Causes severe skin burns and eye damage. May cause respiratory irritation. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, and esophagus and stomach.

Note to physician Treat symptomatically

5. Fire-fighting measures

Flash point: N/A

Flammability of the product: None, Material is not flammable

Suitable Extinguishing media: Foam, Co2, Dry Chemical, Water Spray, Water, Carbon dioxide (CO2)

Non suitable Extinguishing Media Not determined

Specific Hazards Arising from the Chemical Product reacts exothermically with water

Unusual Fire & Explosion Hazards Direct contact with water can cause a violent exothermic reaction

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions: Use personal protective equipment as required

Environmental precautions: 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 cleanup and containment of material

Methods of containment Prevent further leakage or spillage if safe to do so

Large spill: Sweep up and shovel into suitable containers for disposal

7. Handling and storage

Handling: Handle in accordance with good 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 eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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.

Incompatible Materials Strong mineral acids, Strong acids. Chemically reactive metals such as aluminum and magnesium. Dissolving product in water liberates much heat.

8. Exposure controls/personal protection

Exposure Guidelines

Chemical name	ACGIH-TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Sodium dichloroisocyanurate, dehydrate, 51580-86-0	5 mg/m ³	3mg/m ³	

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	Chemical anti-splash safety goggles
Skin and Body Protection	Rubber gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. Approved/certified dust respirator or equivalent.
General Hygiene considerations	Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. Physical and chemical properties

Physical state	Solid
Boiling Point	N/A
Color	White Powder
pH	Approx. 13.8 (1% Solution)
Reactivity in Water	Dissolves with liberation of much heat
Solubility in Water	Complete
Evaporation Rate	N/A

10. Stability reactivity

Stability	Stable under recommended storage conditions
Hazardous polymerization	Hazardous polymerization does not occur
Conditions to avoid	Excessive heat. Avoid direct sunlight. Avoid moisture
Materials to avoid	Strong mineral acids, Strong acids. Chemical reactive metals such as aluminum and magnesium. Dissolving product in water liberates much heat.
Hazardous decomposition products	None known based on information sheet.

11. Toxicological information

Information on likely routes of exposure

Eye Contact Causes severe eye damage

Skin Contact Causes severe skin burns

Inhalation Harmful if inhaled

Ingestion Harmful is swallowed

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC 50
Sodium Hydroxide 1310-73-2	-	=1350 mg/kg (Rabbit)	-
Sodium Dichloroisocyanurate, dihydrate, 51580-86-0	5 mg/m ³	M mg/m ³	-

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

Environmental effects:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal considerations

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 contact 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.

14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	PG*	Personal Protection
DOT Classification Corrosive Solid	UN1759	Sodium Hydroxide, Sodium Dichloroisocyanurate	8	II	C

*PG: Packing group

15. Regulatory information

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.

16. Other information

HMIS	Health Hazards	Flammability	Reactivity	Personal Protection
	3	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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and in 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