



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: SODIUM HYDROXIDE PELLETS

CAS Number: 1310-73-2

**1. IDENTIFICATION:**

**Product Code** : 90243, 90550, 91102, 91002, 91403, 91211, , 91311, 96501, 98967

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**2. HAZARDS IDENTIFICATION:****Hazard classification****Physical hazards**

**Corrosive to Metals** : Category 1

**Health hazards**

**Skin corrosion** : Sub-Category 1A

**Serious eye damage** : Category 1

**Labels elements** :

**Hazard symbol** : 

**Signal word** : Danger

**Hazard statement** : May be corrosive to metals, Causes severe skin burns and eye damage.

**Precautionary statement**

**Prevention** : Obtain special instructions before use.  
Do not breathe dust. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Keep container tightly closed. Ground/ bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools. Take precautionary measures against static discharge.

**Response** : IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



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<b>Storage</b>	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>Disposal</b>	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. COMPOSITION/ INFORMATION ON INGRADIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Sodium Hydroxide Pellets	1310-73-2	NLT 95.0%	Yes

**4. FIRST AID MEASURES:**

<b>General information</b>	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion</b>	: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Inhalation</b>	: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
<b>Skin contact</b>	: Get medical attention if symptoms persist.
<b>Eye contact</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Indication of immediate medical attention and special treatment needed</b>	: The most important known symptoms and effects are described in the labelling.
	: No data available

**5. FIRE FIGHTING MEASURES:****General information****Suitable (and unsuitable) extinguishing media**

<b>Suitable extinguishing media</b>	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	: For this substance/mixture no limitations of extinguishing agents are given.
<b>Specific hazards arising from the chemical</b>	: Sodium oxides, Not combustible. Ambient fire may liberate hazardous vapors.



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**Special protective equipment and precautions for firefighters**

<b>Special firefighting procedures</b>	:	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
<b>Special protective equipment for fire-fighters</b>	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Personal precautions, protective equipment and emergency procedures</b>	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
<b>Methods and material for containment and cleaning up</b>	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
<b>Notification Procedures</b>	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
<b>Environmental precautions</b>	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

<b>Precautions for safe handling</b>	:	Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.



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**8. EXPOSURE CONTROLS PERSONAL PROTECTION:**

Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Workers	Inhalation	Long-term local effects	1 mg/m3
Consumers	Inhalation	Long-term local effects	1 mg/m3

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.
Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Required when dusts are generated.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance	:	White deliquescent pellets.
Odor	:	Odorless
Solubility	:	Soluble in water.
Formula	:	NaOH
Molecular Weight	:	40.00 g/mol
Density	:	2.13 g/cm3 at 20 °C
pH	:	> 14 at 100 g/l at 20 °C



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% Volatiles by volume @ 21C (70F)	: No data available.
Boiling Point	: 1.390°C
Melting Point	: 318°C
Flash Point	: No data available.
Vapor Density (Air=1)	: 1.38
Vapor Pressure (mm Hg)	: No data available.
Evaporation Rate (BuAc=1)	: No data available.

**10. STABILITY AND REACTIVITY:**

Reactivity	: No data available.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	<b>Violent reactions possible with:</b> Acetone, Chlorine. Ethylene oxide, Fluorine, Hydrogen halides, Hydrazine hydrate, hydroxylamine, Acid anhydrides, Acrolein, Acid chlorides, Acids, sulfuric acid, Chloroform, Water, hydrogen peroxide, anhydrides, phosphides, halogen-halogen compounds, trichloroethene. <b>Can decompose violently in contact with:</b> Organic Substances, hydrogen sulphide <b>Risk of ignition or formation of inflammable gases or vapours with:</b> powdered aluminium, Ammonium salts, persulfates, Sodium borohydride phosphorus, Oxides of phosphorus, Halogenated hydrocarbon, Light metals, Metals, <b>Risk of explosion/exothermic reaction with:</b> Bromine, Calcium, in powder form, furfuryl alcohol, Nitromethane, Peroxides, organic nitro compounds, Nitriles, Acrylic monomers, Chloroform, with Acetone, Nitrobenzene with Methanol, Nitrobenzene, with salts magnesium, Zinc and Tin.
Conditions to avoid	: No data available.
Incompatible materials	: Aluminum, brass, Metals, metal alloys, Zinc, Tin
Hazardous decomposition products	: In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:**

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product	: No data available.
Dermal Product	: No data available.
Inhalation Product	: No data available.



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Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Causes burns.
Serious eye damage/eye irritation Product	: Causes serious eye damage.
Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available.
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No data available.
Specific target organ toxicity - single exposure Product	: Not known.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: No data available.
Other effects	: None known.

**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : LC 50 (Western mosquitofish (Gambusia affinis), 95 h): > 125 mg/l.

Aquatic invertebrates Product : EC 50 Water flea (Ceriodaphnia), 48 h): 40,4 mg/l .

**Chronic hazards to the aquatic environment**

Fish Product : No data available.

Aquatic invertebrates Product : No data available.



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**Toxicity to Aquatic Plants**  
**Product:** : No data available.

**Persistence and degradability**

**Biodegradation Product** : No data available.

**BOD/COD ratio Product** : No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.

**Partition coefficient n-octanol / water (log Kow) Product** : No data available.

**Mobility in soil** : No data available.

**Other adverse effects** : Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.  
: Neutralisation possible in waste water treatment plants. Discharge into the environment must be avoided.

**13. DISPOSAL CONSIDERATION:**

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. TRANSPORT INFORMATION:**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	UN 1823	Sodium Hydroxide	8	II	No
<b>IMDG</b>	UN 1823	Sodium Hydroxide	8	II	No
<b>IATA</b>	UN 1823	Sodium Hydroxide	8	II	No

**15. REGULATORY INFORMATION:**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

No Data Available.

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## 16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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