

Material Safety Data Sheet

Caustic soda Flake 99%

1. SECTION 1: PRODUCT IDENTIFICATION:

Manufacturing Origin: China
Synonym: Sodium Hydroxide
Chemical Family: Alkali
NFPA Rating: 0, 1 and 3

2. SECTION 2: HAZARDOUS INGREDIENTS:

Chemical Name: Caustic soda flake
Cas Number: 1310-73-2
%WT: 100
TLV: 2mg/m³
PEL: 2mg/m³

3. SECTION 3: HAZARDOUS IDENTIFICATION:

Potential Acute Health Effects: Prolonged contact with dilute solutions of dust has a destructive effect upon tissue.

Potential Chronic Health Effects: No Chronic Sara 311/312 effects listed

4. SECTION 4: PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: 2534°F
pH: 13 – 14 (0.5% Soln)
Solubility in Water: Soluble
Appearance/Odor: White deliquescent flake with no odor
Melting Point/Freezing Point: 604°F
Vapor Density (Air=1): > 1.0
Vapor Pressure (mmHg): < 0.1
VOC%: 0
Specific Gravity (H₂O=1) 2.13

5. SECTION 5: FIRE FIGHTING MEASURES:

Flash Point: None

Auto Ignition: Decomposes

Extinguishing Media: Not considered a fire hazard. Use any means suitable for extinguishing surrounding fire.

Flammable Limits: Lower: None, Upper: None

Fire Fighting Procedures: Cool fire-exposed containers with water spray to prevent container weakening and possible rupture. Do not enter confined spaces without self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing

Unusual Fire and Explosion Hazards: Not considered an explosion hazard

6. SECTION 6: STABILITY AND REACTIVITY:

Stability: Stable under normal use conditions

Conditions to Avoid: Moisture, dusting and incompatibles

Incompatibility: Avoid contact with acids, moisture, strong oxidizing agents, powdered metals

Hazardous Decomposition Products: Oxides of Sodium

Hazardous Polymerization: Will not occur

7. SECTION 7: STORAGE AND HANDLING:

Precautions to be taken: Always store in tightly sealed, properly labeled, original container. Store in cool, dry well ventilated area. Prevent physical damage. Keep away from source of heat, moisture and incompatibles.

Other Precautions: Follow label instructions and Precautions

8. SECTION 8: HEALTH AND FIRST AID:

Skin: Corrosive! Severely irritating

Eyes: Corrosive! Severely irritating

Inhalation: Severely irritating. High dust concentrations can do serious damage to respiratory system.

Ingestion: Severely irritating. May cause severe burns of mouth, throat and stomach

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes. Get medical attention immediately

Skin: Flush off excess with large amounts of cool running water for at least 15 minutes. Get medical attention immediately

Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention

Ingestion: DO NOT induce vomiting. Drink large amounts of water or milk. Seek medical attention immediately

9. SECTION 9: EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: Eye protection when handling. Goggles, safety glasses with side shields or full-face shield are recommended

Respiratory Protection: Where adequate ventilation is not available an approved respirator (NIOSH N95 or better) must be worn. In confined or areas where exposure is above 50 times the TLV, use self-contained breathing apparatus

Skin Protection: Wear impervious clothing, including boots, gloves, apron or coveralls, as appropriate to prevent skin contact

Ventilation: General mechanical ventilation to prevent dusting and TLV from exceeding control limits

Protective clothing: Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other protective items.

Other Equipment: Eye wash station and drench shower in close proximity

10. SECTION 10: ACCIDENTAL RELEASE MEASURES:

Ventilate area of spill. Wear appropriate PPE as specified in Section 11. Sweep up and containerize for reclamation or disposal. Avoid dust dispersal during clean up operation

11. SECTION 11: DISPOSAL CONSIDERATIONS:

Whatever cannot be salvaged should be managed in an appropriate and approved waste disposal facility.

Processing use or contamination of this product may alter its waste classification. State and local disposal

regulations may differ from federal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

12. SECTION 12: TRANSPORTATION:

Proper Shipping Name: Sodium Hydroxide Solid

Hazard Class: 8

UN Number: 1823

Packaging Group: II

13. SECTION 13: TOXICOLOGY:

Carcinogenicity: Not NTP listed

Mutagenicity: Not reported to product mutagenic effects in humans

Reproductive: Not reported to product reproductive effects in humans.

Sensitization: Persons with pre-existing skin disorders or eye problems may be more susceptible to this product

14. SECTION 14: REGULATORY:

RMP/PSM: Not Listed

CERCLA-RQ: 1000 Lbs

EPCRA 311/312: Yes

EPCRA 313: Yes

FIFRA: No documented information available

RCRA-CODE: No Hazardous waste identification

TSCA: Listed

15. SECTION 15: OTHER INFORMATION:

The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty,

express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.