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MATERIAL SAFETY DATA SHEET

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1.0 IDENTIFICATION OF PRODUCT,

PRODUCT NAME / CODE : **Caustic Soda** CAS No: 1310-73-2

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 >98% Sodium Hydroxide C, corrosive R35

3.0 HAZARDOUS IDENTIFICATION

Corrosive, C Risk Phrase: R35, causes severe burns.

4.0 FIRST-AID MEASURES

4.1 EYE CONTACT

Severe Burns! Pain, Reddening, Watering.

Irrigate immediately and copiously with clean water for at least 10 minutes. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

4.2 SKIN CONTACT

Irritation, blistering.

Remove contaminated clothing. Drench skin with plenty of water. If large areas of the skin is damaged or if irritation persists, or any sign of tissue damage is apparent obtain medical advice immediately.

4.3. INGESTION

Stomach upsets, burns to the gastrointestinal tract. Wash out mouth with water. Do not induce vomiting. If patient feels unwell, seek medical attention immediately.

4.4 INHALATION

Severe irritation of airways. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical advice.

4.5 GENERAL INFORMATION

As in all cases of potential poisoning, supportive therapy is of the utmost importance.

5.0 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: use extinguisher suitable to cause of fire.

Hazardous combustible products: Not flammable, Can react with some metals to generate hydrogen gas.

Special Equipment for fire fighting: Wear protective clothing. Self-contained breathing apparatus.

6.0 ACCIDENT RELEASE MEASURES

6.1 Safety Precautions: Wear appropriate PPE

6.2 Environmental precautions: Do not allow materials to contaminate drains or any water course.

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7.0 HANDLING & STORAGE

7.1 HANDLING :

Ventilation. Good ventilation. LEV may be required in dusty environment.

7.2 STORAGE

Store in cool (20 degrees C) dry place, in full tightly closed packaging protected from sunlight. Suitable storage media: Plastics.

7.3 PROHIBITED PROCEDURES & EQUIPMENT: Only use materials resistant to strong alkalis. Avoid direct contact with the product. Avoid inhalation of dust. Keep container tightly closed.

7.4 Recommended procedures & equipment. Exercise great care when handling. Avoid spillage.

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 RESPIRATORY PROTECTION

Self contained breathing apparatus should be used where exposure to high concentration is likely.

8.2 HAND PROTECTION

Protective gloves/Chemical resistant gloves.

8.3 EYE PROTECTION

Close fitting goggles.

8.4 SKIN PROTECTION

Boots/overalls.

Hygiene measures: Always wash thoroughly after handling chemicals.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE

Colour : White

Form : Fine pellets

9.2 ODOUR : Odourless

9.3 pH : Strong Alkaline, 1% solution: >11.0

9.4 CHANGE OF PHYSICAL STATE

9.5 FLASH POINT : N/A

9.6 FLAMMABILITY : N/A

9.7 EXPLOSIVE PROPERTIES : Reacts violently with acids.

9.8 BOILING POINT : 1390 degrees C

9.9 RELATIVE DENSITY : 1.00 1.1

9.10 SOLUBILITY IN WATER : Soluble

10.0 STABILITY & REACTIVITY

10.1 STABILITY

Stable, absorbs moisture and carbon dioxide.

10.2 HAZARDOUS REACTION

Evolves hydrogen in contact with aluminium and Zinc. Can react violently with acids, Chlorinated hydrocarbons.

10.3 AUTO-OXIDATION :

Conditions to avoid: Excessive humidity.

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11.0 TOXICOLOGICAL INFORMATION

This preparation is a mixture. The toxicological information is based on theoretical estimation of the ingredients in this formulation and their concentrations.

LD 50: 500 mg/kg Oral Rat (10% solution)

Effects: Ingestion may result in perforation of digestive tract, haemorrhage and severe burns of mouth and throat. Contact with eyes may result in severe burns and causing permanent eye damage. Inhalation may result in severe burns to the respiratory tract. Skin contact may result in severe burns with permanent skin damage which are slow to heal.

12.0 ECOLOGICAL INFORMATION : Environmental Effects

12.1 Persistence/Degradation : Can cause long term adverse effects for the aquatic environment. High pH values & sodium content has a potential to damage the soil.

12.2 Mobility : Hygroscopic and very soluble.

12.3 Aquatic : In abundance, toxic to aquatic organisms due to high pH.

13.0 DISPOSAL CONSIDERATIONS

Comply with Local regulation for Waste disposal to an approved waste disposal site, observing all local and national regulations. Containers, also treated as substance. Used containers must not be purchased or cut up until completely.

14.0 TRANSPORT INFORMATION

UN Number 1823 Class/Item No. 8,41 degrees (b)

Primary Hazard Corrosive

Packing Group II Emergency Action Code: 2X

H.I. Number 80

15.0 REGULATORY INFORMATION

Classification & Labeling

Product is classified in accordance with Regulation CHIP 3 2002

Label Name : Caustic Soda

Symbols : C, Corrosive

Risk Phrases : R35 Causes severe burns

R37 Irritating to respiratory system

R39 Wear eye/face protection

Safety Phrases : S1/2 Keep locked-up and out of reach of children

S45 In case of accident or if you feel unwell seek medical advice immediately. Show the container/label.

E.C. No. 215-185-5

16.0 FURTHER INFORMATION

Legal Disclaimer: The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for the purpose.

The information contained in this safety data sheet does not in itself constitute a workplace risk assessment as required to be carried out under COSHH regulations.

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