



## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME : CAUSTIC

## SODA SECTION 2 - COMPOSITION / INFORMATION ON

### INGREDIENTS

>98% Sodium Hydroxide C, corrosive R35

## SECTION 3 - HAZARDS IDENTIFICATION

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

## SECTION 4 - 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 are 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. 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.



## **SECTION 6 - ACCIDENTAL RELEASE MEASURES MINOR SPILLS**

6.1 Safety Precautions: Wear appropriate PPE

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

## **SECTION 7 - HANDLING AND STORAGE**

7.1 HANDLING:

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

7.2 STORAGE

Store in 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.

## **SECTION 8 - 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.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL PROPERTIES**

9.1 APPEARANCE Color: White Form: Flakes

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

## **SECTION 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION**

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.



## **SECTION 11 - TOXICOLOGICAL INFORMATION**

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

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

Effects: Ingestion may result in perforation of digestive tract 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.

## **SECTION 12 - ECOLOGICAL INFORMATION**

Environmental Effects

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

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

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

## **SECTION 14 - TRANSPORTATION 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

## **SECTION 15 - 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



## **SECTION 16 - OTHER INFORMATION**

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

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