

# Prime Chemicals-Pakistan

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## Material Safety Data Sheet

**PRODUCT NAME : Caustic Soda**  
**Manufacturer Sitara Chemicals Faisalabad**

### **I. HAZARDOUS INGREDIENTS**

SODIUM HYDROXIDE (CAS NO.: 1310-73-2) 98% minimum

### **II. PHYSICAL PROPERTIES**

- |                        |                          |
|------------------------|--------------------------|
| 1. APPEARANCE          | : WHITE FLAKES           |
| 2. DENSITY             | : NA                     |
| 3. SOLUBILITY IN WATER | : SOLUBLE                |
| 4. ODOUR               | : NOTHING CHARACTERISTIC |
| 5. OTHER (pH)          | : ALKALINE               |

### **III. FIRE AND EXPLOSION HAZARD DATA**

- |                                       |                                                                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. FLASH POINT °C                     | : NONE                                                                                                                                                                                                                                                            |
| 2. EXTINGUISHING MEDIA                | : WATER FOG OR SPRAY / FOAM                                                                                                                                                                                                                                       |
| 3. SPECIAL FIRE FIGHTING PROCEDURES   | : WEAR NIOSH APPROVED FULL PROTECTIVE CLOTHING & SELF-CONTAINED BREATHING APPARATUS. KEEP CONTAINERS COOL TO PREVENT RUPTURE AND RELEASE OF MATERIAL.                                                                                                             |
| 4. UNUSUAL FIRE AND EXPLOSION HAZARDS | : NOT FLAMMABLE IN NATURE BUT IF INVOLVED IN A FIRE, IT WILL GENERATE TOXIC OXIDES OF CARBON. IN THE PRESENCE OF WATER, MATERIAL MAY REACT WITH AMPHOTERIC METALS (SUCH AS ALUMINIUM, ZINC OR TIN) GENERATING HYDROGEN GAS WHICH WILL BURN OR EXPLODE IF IGNITED. |

### **IV. HEALTH HAZARD DATA**

#### **EFFECTS OF ACUTE EXPOSURE :**

- |               |                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------|
| 1. INHALATION | : DUST MAY DAMAGE UPPER RESPIRATORY TRACT AND LUNG TISSUE WHICH MAY CAUSE CHEMICAL PNEUMONIA. |
| 2. INGESTION  | : CAN CAUSE SEVERE BURNS TO MOUTH, THROAT, ESOPHAGUS AND STOMACH. MAY BE FATAL.               |
| 3. SKIN       | : CAN CAUSE SEVERE BURNS, IRRITATIONS AND RASH                                                |
| 4. EYES       | : CAUSE SEVERE BURNS WITH DAMAGE TO EYES                                                      |

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5. CHRONIC EXPOSURE : AND POSSIBLE BLINDNESS.  
: IRRITATION OR DAMAGE TO RESPIRATORY  
TRACT TISSUE AND INCREASED SUSCEPTIBILITY  
TO RESPIRATORY ILLNESS

6. CARCINOGEN REFERENCE : NOT LISTED BY NTP, IARC AND OSHA.

## **V. EMERGENCY AND FIRST AID PROCEDURES**

1. INHALATION : REMOVE PERSON FROM CONTAMINATED AREA. IF BREATHING HAS STOPPED, RESUSCITATE AND ADMINISTER OXYGEN IF AVAILABLE. SEEK IMMEDIATE MEDICAL ATTENTION.
2. INGESTION : NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON, OBTAIN IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR. IF SWALLOWED GIVE LARGE AMOUNTS OF WATER AND INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
3. EYES : FLUSH EYES WITH PLENTY OF WATER. HOLDING LIDS APART TO ENSURE FLUSHING OF ENTIRE SURFACE TO PREVENT OR RELIEVE IRRITATION. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
4. SKIN : IMMEDIATELY WASH CONTAMINATED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR IF IT CANNOT BE DECONTAMINATED. IF IRRITATION CONTINUES, SEEK MEDICAL ATTENTION.

## **VI. PRECAUTION FOR SAFE HANDLING AND USE**

1. SPILL PROCEDURES : AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR PROTECTIVE EQUIPMENT (SEE SECTION VII). DO NOT BREATHE MIST OR VAPORS. CONTAIN SPILL AND SWEEP OR SHOVEL UP INTO PLASTIC-LINED STEEL CONTAINERS AND COVER. FLUSH THE SPILL AREA WITH PLENTY OF WATER AND NEUTRALISE WITH DILUTE ACIDS LIKE ACETIC ACID. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL REGULATIONS.
2. STORAGE AND HANDLING PRECAUTION : STORE IN COOL & DRY PLACE (PREFERABLY WITHIN 25-35°C UNDER CLOSED CONDITION TO AVOID ANY CONTAMINATIONS). KEEP AWAY FROM ACIDS AND ORGANIC COMPOUNDS. LOOSEN COVER CAUTIOUSLY WHEN OPENING.
3. ADDITIONAL INFORMATION : STORE ABOVE FREEZING TEMPERATURE.

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## **VII. CONTROL MEASURES**

1. VENTILATION : LOCAL EXHAUST RECOMMENDED.
2. RESPIRATOR : USE NIOSH APPROVED RESPIRATOR WHENEVER NECESSARY.
3. EYE PROTECTION : CHEMICAL SAFETY GOGGLES / FACE SHIELD
4. GLOVES : NEOPRENE / NATURAL RUBBER
5. OTHER PROTECTIVE CLOTHINGS : CHEMICALLY RESISTANT COVERALLS, HAT & SHOES OR BOOTS.
6. WORK HYGENIC PRACTICES : EMERGENCY EYE WASH AND SAFETY SHOWER SHOULD BE AVAILABLE. WASH THOROUGHLY AFTER HANDLING.
7. DISPOSAL CONSIDERATIONS : DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL REGULATIONS. FOR MAJOR SPILLS CONSULT PRIME CHEMICALS., FOR ECESSARY ACTION. WASH THOROUGHLY THE EMPTY PACKING MATERIAL / DRUM / CARBOUY'S AND COLLECT THE WASHINGS IN SUITABLE CONTAINERS & DISPOSE THE SAME IN ACCORDANCE TO THE ABOVE SPECIFIED TERMS AND CONDITIONS

## **VIII. REACTIVITY DATA**

1. STABILITY : STABLE
2. CONDITIONS TO AVOID : MOISTURE AND HEAT
3. INCOMPATIBILITY : ACIDS, ACID SALTS, AMPHOTERIC METALS (MATERIALS TO AVOID) (SUCH AS ALUMINIUM, ZINC, TIN), ORGANIC COMPOUNDS, HEATED WATER.
4. HAZARDOUS DECOMPOSITION PRODUCTS : IF INVOLVED IN A FIRE, IT WILL GENERATE TOXIC OXIDES OF CARBON.
5. HAZARDOUS : WILL NOT OCCUR POLYMERIZATION

## **IX. ADDITIONAL INFORMATION**

NA	: Not Applicable	PEL	: OSHA Permissible Exposure Limit
NI	: Not Relevant Information Available	TLV	: ACGIH Threshold Limit Value
T.S	: Trade Secret as per 29 CFR 1910.1200	NTP	: National Toxicology Programme
CAS	: Chemical Abstract Service	IARC	: Int'l Agency for research on cancer

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