

Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

PRODUCT: Sodium Hydroxide

MSDS. NO.:CP/MSDS/SH/2 **TELEPHONE NUMBERS:**

MANUFACTURED BY:

Chlor Pars Company

Office: +984136300994 Fax: +984136301243

Tabriz IRAN

SECTION II - HAZARDOUS INGREDIENTS

EXPOSURE LIMITS: 8 HR. TWA

OSHA PEL

ACGIH TLV

Sodium Hydroxide (CAS# 1310-73-2)

CL 2 mg/m^3 CL 2 mg/m³

SECTION III - HAZARDS IDENTIFICATIONS

OSHA Hazardous Components (29 CFR 1910.1200)

EMERGENCY OVERVIEW: DANGER! Corrosive to all body tissues. Avoid contact with skin or eyes. Harmful if inhaled or swallowed.

POTENTIAL HEALTH EFFECTS:

INHALATION:

Inhalation of vapor or mist is corrosive to respiratory tract.

EYE CONTACT: SKIN CONTACT: Liquid or vapors are corrosive to eyes. Liquid or vapors are corrosive to skin.

INGESTION:

Toxic. May cause severe damage, perforation, and scarring of gastrointestinal tract.

CHRONIC Effects: Chemical pneumonitis.

CARCINOGENICITY: LISTED IN NTP?

IARC? No

OSHA

Regulated? No

SECTION IV - FIRST AID MEASURES

Ingestion:

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. If victim can swallow, have him/her drink 250 to 300 mL of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical attention immediately.

Eye Contact:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists, repeat flushing. If available, a neutral saline solution may be used to flush the contaminated eye(s) an additional 30 minutes. Obtain medical attention immediately.

Skin Contact:

First aiders avoid direct contact with this chemical. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 30 minutes, by the clock. Under running water, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Inhalation:

Remove source of contamination or move victim to fresh air. Obtain medical advice immediately.

Other First Aid:

Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Control Centre for all exposures except minor instances of inhalation contact.

Notes to physician:

Treat symptomatically as for strong alkalis.

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SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD):

None

FLAMMABLE LIMITS:

LOWER: NA

UPPER: NA

AUTOIGNITION TEMPERATURE:

NA

GENERAL HAZARD:

Toxic fumes of Na₂O, SO_x

FIRE FIGHTING INSTRUCTIONS:

Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side. Firefighters wear protective clothing and self contained

breathing apparatus.

EXTINGUISHING MEDIA: Dry powder, carbon dioxide (CO₂), water fog or spray

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, toxic fumes of Na₂O, CO, CO₂, SO_x.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Spill/Leak: Notify safety personnel, isolate hazard area, deny entry, and stay upwind of spills. Cleanup personnel should protect against vapor

Inhalation and skin or eye contact. Use water spray to disperse vapors, but do not spray directly on spills. For small dry spills, avoid excess dust

Generation by carefully scooping or vacuuming (with appropriate filter) into a suitable container (above 60°C sodium hydroxide corrodes steel)

For later disposal. For large dry spills, cover with plastic sheet or other impermeable layer and contain for later disposal.

SECTION VII - HANDLING AND STORAGE

HANDLING:

Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before

reuse.

STORAGE:

Store away from strong acid, acidic materials.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust recommended.

PERSONAL PROTECTION:

Wear chemical impervious gloves and full face shield. Use boots, aprons, drench showers, eye wash as needed for protection against spills

and/or splashes.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND

SPECIFIC GRAVITY: 2.13 at 77 °F (25 °C) **SOLUBILITY IN WATER: Complete**

pH(0.5%Solution): 13

BOILING POINT: 2534 °F (1390 °C)

APPEARANCE & ODOR: Odorless, hydroscopic (readily absorbs water) white flakes

SECTION X - STABILITY AND REACTIVITY

STABILITY:

Stable.

CONDITIONS TO AVOID: High temperatures.

MATERIALS TO AVOID: Strong acids, acidic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: From combustion: smoke, carbon monoxide, carbon dioxide, oxides of

sulfur, Na₂O

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION XI - TOXICOLOGICAL INFORMATION

Sodium hydroxide

LDLo:

500 mg/kg

(oral - rat)

50 g/24 hr 500 mg/24 hr SEV SEV (eye - rabbit) (skin - rabbit)

SECTION XII - ECOLOGICAL INFORMATION

Sodium hydroxide

125 ppm / 96 hr / mosquito fish / TLm / fresh water

180 ppm / 23 hr / oysters / lethal / salt water

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:

Sodium Hydroxide, flakes

Packing Group: II HAZARD CLASS:

IDENTIFICATION NUMBER:

UN 1823

DOT Packaging Exceptions: 173.244

SECTION XV - REGULATORY INFORMATION

Classified as hazardous according to the criteria of NOHSC, Schedule 6 poison according to SUSDP, Class 8 according to ADG

R-phrases:

R35, causes severe burns and R41, risk of serious damage to eyes.

S-phrases: S2, keep out of reach of children, S26, in case of contact with eyes, rinse immediately with plenty of water and seek medical advice, \$37/39, wear suitable gloves and eye/face protection.

SECTION XVI - OTHER INFORMATION

HMIS ratings

Health: 3* Flammability: 0 Physical hazard: 1 Personal protection: D

NFPA ratings

Health: 3 Flammability: 0 Instability: 1

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.

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