

MSDS

Material Safety Data Sheet



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Sodium Hydroxide

SECTION 1 PRODUCT IDENTIFICATION

NAME: Sodium Hydroxide
EKI ODRER NUMBER: 8404, 8408
SYNONYMS: Caustic Soda, Lye
CAS NO: 1310-73-2
FORMULA: NaOH
REVISION DATE: 05 May 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

DANGER! MAY BE FATAL IF SWALLOWED. CAUSES SEVERE BURNS. HARMFUL IF INHALED. Do not get on skin, in eyes, on clothing. Do not inhale dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
Sodium Hydroxide/1310-73-2	2 mg/m ³ TWA	2 mg/m ³ CEIL

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible
VAPOR PRESSURE (mm Hg): Negligible
SPECIFIC GRAVITY: 2.13
EVAPORATION RATE: Negligible
APPEARANCE AND ODOR: White pellets or flakes. Odorless.

BOILING POINT (C): 1390
VAPOR DENSITY: Does not apply
MELTING POINT (C): 318

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): Not combustible.
AUTOIGNITION TEMPERATURE (C): Does not apply
FLAMMABLE LIMITS (%): Does not apply
EXTINGUISHING MEDIA: Suitable for surrounding fire. Use water spray to cool containers.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Direct contact with water can cause violent exothermic reaction.

SECTION 5 REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat, freezing.

MATERIALS TO AVOID: Acids, aldehydes, many organic substances.

HAZARDOUS DECOMPOSITION PRODUCTS: N/I

HAZARDOUS POLYMERIZATION: Does not occur

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:

INHALATION: Respiratory tract burns.

SKIN CONTACT: Causes burns.

EYE CONTACT: Causes burns, permanent damage, blindness.

SKIN ABSORPTION: N/I

INGESTION: Severe burns and perforation of mucous membranes of mouth, throat and stomach. May be fatal.

CHRONIC: N/I

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/I

CARCINOGENICITY: None

****FIRST AID PROCEDURES****

GET IMMEDIATE MEDICAL ATTENTION

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, separating eyelids while flushing. Prompt action is essential.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated garments.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Do NOT induce vomiting. If conscious, give large quantities of water to drink. If vomiting occurs, give more water.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Scoop or sweep up carefully and containerize for disposal. Flush residual spill carefully with water.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed at 15-30 C away from acids, aldehydes and organic materials.

SECTION 8 CONTROL MEASURES

VENTILATION: Local or general.

RESPIRATORY PROTECTION: If required, approved dust respirator.

EYE PROTECTION: Chemical safety goggles and/or full face shield.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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