

Material Safety Data Sheet

Caustic Soda Flakes

Section 1: Chemical Product and Company Identification

Product Name : Caustic Soda
Synonyms : $C_2H_4O_2$
Company Identification : Tradeasia International Pte Ltd
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
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Email: contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Sodium Hydroxide	1310-73-2	48 - 52

Section 3: Hazards Identification

SKIN AND EYES

Corrosive, toxic and a major potential hazard upon contact.

TOXICITY ROUTES OF EXPOSURE

Ingestion can cause severe burning and pain in lips, mouth, tongue, throat and stomach. Death can result from ingestion.

OVEREXPOSURE

Causes burns and scarring. Can cause serious damage to all body tissues contacted.

CANCER INFORMATION

Not applicable

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Chronic eye or skin conditions

Section 4: First Aid Measures

Eye Contact:

Immediately flush eyes with large amount of water, occasionally lifting the upper and lower eyelids and rotating the eyeballs. Continue flushing for a minimum of 15 minutes. See a physician.

Skin Contact:

Remove contaminated clothing and immediately wash skin for a minimum of 15 minutes. Call or see a physician.

Inhalation:

Remove to fresh air. If breathing stops, administer artificial respiration. See a Physician.

Ingestion:

DO NOT induce vomiting. If person is conscious, give 2 or more glasses of water. If unconscious, never give anything by mouth. See a physician immediately.

Section 5: Fire and Explosion Data

Auto ignition Point : Not Applicable

Flammability/Explosive limits : Not Applicable

Fire/Explosion Hazards : Contact with strong acids may generate enough heat to ignite combustibles.

Section 6: Accidental Release Measures

Fire Prevention : Not Applicable

IN CASE OF SPILL OR RELEASE : Completely contain spilled material with dikes, sandbags, etc., and prevent run off into the ground or surface waters or sewers. Recover as much caustic material as possible into containers for disposal. Add water and neutralize remaining caustic material with dilute hydrochloric acid, citric acid or another solid acidic material to a pH between 6 and 9. Collect neutralized caustic with a dry sorbent. Flush residual neutralized waste to the drain with excess water.

Section 7: Handling and Storage

Storage Requirements : Keep container tightly closed.

FOR SMALL VOLUMES : Maybe stored in plastic jugs.

FOR LARGE VOLUMES : Store in steel storage tanks.

INCOMPATIBLE MATERIALS : Store away from acids.

Section 8: Exposure Controls/Personal Protection

Adequate ventilation needed. TLV C 2 mg/m³

Protective Equipment for the eyes and skin

Goggles, respirator, disposable latex/ rubber apron, PVC rain suit, rubber boots with pant legs over boots.

Precautionary Hygiene/control measures

Avoid contact with skin, eyes, and clothing. Do not breathe mist or vapor. Wash thoroughly after handling. Safety showers and eye wash fountains should be available in storage and handling area.

Section 9: Physical and Chemical Properties

State	: liquid
Appearance	: colorless or slightly turbid
Odor	: Irritating
pH	: Strong base >14
Boiling point	: 1450C for ~50% NaOH Solution
Flash point	: Not determined
Specific gravity	: 1.51-1.54
Vapor pressure	: ~6.3 mm Hg @ 400C
Solubility in	: WATER: miscible, ACID: miscible

Section 10: Stability and Reactivity Data

Stable under normal handling conditions. Materials and conditions to avoid (incompatibility) are:

- Chlorinated hydrocarbons, acetaldehyde, acrolein, aluminum, chlorine trifluoride, hydroquinone, maleic anhydride, and phosphorous pentoxide.
- Dilution with water evolves large quantity of heat. Hazardous decomposition & combustion product none Hazardous polymerization will not occur.

Section 11: Toxicological Information

Effects from skin contact – Contact with skin can cause severe burns with deep ulcerations. Contact with solution or mist can cause multiple burns with temporary loss of hair at burn site.

Effects from eye contact – Liquid in the eye can cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye. Mist can cause irritation with high concentration causing destructive burns.

Section 12: Ecological Information

Ecotoxicity:

High basicity may pose potential hazard to plant and marine life.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Transportation of Dangerous Goods

TDG Classification : Do not ship by air.
DOT Hazard Classification : Class 8: Corrosive
DOT Shipping Name : Sodium Hydroxide ID: UN1824

Section 15: Other Regulatory Information

RMP/PSM : Not listed
CERCLA-RQ : 1000 Lbs
EPCRA 311/312 : Yes
EPCRA 313 : Yes
FIFRA : No documented information available.
RCRA-CODE : No Hazardous Waste Identification.
TSCA : Listed

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.