



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
Tel: (705) 436-5580 Fax: (705) 436-7194

Material Safety Data Sheet

SODIUM HYDROXIDE SOLID (SOLID PRILLS)

Revision Date: 2008/05/08

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Mixture.

Product uses: Manufacture of soap, rayon & cellophane, neutralising agent, etc.

Product name: Sodium Hydroxide (Solid Prills) (Caustic Soda,
Soda Lye, NaOH)

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
1310-73-2	100	SODIUM HYDROXIDE	2 MG/M3 (CL)	NOT AVAILABLE	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: CAS# 1310-73-2: LD50 500 mg/kg rat oral (supplier).

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: Extremely corrosive.
May cause permanent damage.

Skin contact: Causes severe burns.
May cause ulceration and scarring.

Skin absorption: Not absorbed through the skin.

Inhalation: May cause severe damage to respiratory system.

Ingestion: Risk of perforation of the stomach.
Severe burns to mouth and digestive system.

Effects of chronic exposure: None known.

- Sensitization to product:** Not available.
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** No effects reported.
- Teratogenicity:** Not available.
- Mutagenicity:** Not available.
- Synergistic materials:** None known.

Section 4 : FIRST AID MEASURES

- Skin contact:** Wash thoroughly with soap and water.
Remove contaminated clothing.
Consult a physician if irritation persists.
- Eye contact:** Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.
- Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.
- Ingestion:** Obtain immediate medical attention.
Give large quantities of water to drink.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
- Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Not flammable.
- Conditions of flammability:** Surrounding fire.
- Extinguishing media:** Use appropriate extinguishing media for surrounding fire.
- Special procedures:** Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.
- Auto-ignition temperature (°C):** Not flammable.
- Flash point (°C), method:** Non-flammable.
- Lower flammability limit (% vol):** Not flammable.
- Upper flammability limit (% vol):** Not flammable.
- Explosion Data**
- Sensitivity to static discharge:** Not sensitive.
- Sensitivity to mechanical impact:** Not sensitive.
- Hazardous combustion products:** Sodium oxides (NaOx).
Hydrogen gas when in contact with incompatible metals.

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Sweep up.
Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Avoid generating airborne dust.
Place in a closed container for disposal.
Neutralize with dilute acid.
Blanket spill with foam to protect against accidental ignition.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Avoid contact with skin, eyes and clothing.
When mixing with water, add material slowly with constant stirring, to avoid violent splattering.
Launder contaminated clothing prior to reuse.

Storage requirements: Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type:



Rubber or PVC.

Respiratory/Type: If TLV is exceeded.



NIOSH/MSHA approved with dust/mist/fume cartridge.

Eye/Type:



Safety glasses with side-shields.



Face shield.



Chemical safety goggles.

Footwear/Type:



Impervious boots.

Clothing/Type: Long sleeve shirt, long trousers.

PVC apron.

Rubber apron.

Other/Type: Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

Ventilation requirements: As needed to stay below TLV.

Mechanical ventilation is recommended.

Exposure limit of material: Not available for mixture, see the ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance & odor: Odourless.

Crystals.

Hygroscopic.

White or gray.

Pellets.

Odor threshold (ppm): Not applicable.

Vapour pressure (mmHg): None

Vapour density (air=1): None

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 1390°C

Freezing point (°C): 318°C

pH: 14

Specific gravity @ 20 °C: (density).
2.13

Solubility in water (%): 1 Kg/L @ 20°C

Coefficient of water/oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Absorbs moisture from the air.

Hazardous polymerization: Will not occur.

Incompatible substances: Water
Acids
Aluminum (Al).
Zinc (Zn).
Copper (Cu).
Glycols.
Organic peroxides.
Organohalogens.
Damages leather, wool and silks.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 500 mg/kg rat oral.

LC50 of product, species & route: Not available.

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.
Dispose of waste product in a sanitary landfill.

Section 14 : TRANSPORT INFORMATION

TDG classification: SODIUM HYDROXIDE, SOLID
UN1823
Class 8
PG II.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

E, D1B.



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/05/08

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