


SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	Sodium Hydroxide 1.0N
OTHER MEANS OF IDENTIFICATION:	None
RECOMMENDED USE:	Laboratory reagent
RESTRICTIONS ON USE:	None known
SUPPLIER IDENTIFIER:	Di-Corp Testing Equipment Unit 2, 4816-35B St. SE Calgary, Alberta T2B 3N1 403-268-7912
	A division of : Di-Corp 8750-53 Ave Edmonton, AB T6E 5G2 780-440-4923
EMERGENCY PHONE NUMBER 24hr:	780-468-4064
EMERGENCY TRANSPORT NUMBER:	1-888-CANUTEC (226-8832), 613-996-6666 or *666 on a cellular phone

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Corrosive to metals – Category 1 Skin Corrosion/Irritation – Category 1A Serious Eye Damage / Eye Irritation – Category 1
LABEL SYMBOLS:	
SIGNAL WORD:	DANGER
CLASSIFICATION INFORMATION:	May be corrosive to metals. Causes severe skin burns and serious eye damage.
OTHER HAZARDS:	Not available
	Prevention Keep only in original packaging. Do not breathe fume/mist/vapours/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
	Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Absorb spillage to prevent material – damage.
PRECAUTIONARY STATEMENTS:	Storage Store locked up. Store in a corrosion resistant container.

Disposal

Dispose of contents/container in accordance with local, provincial or federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Sodium hydroxide	1310-73-3	4% (w/v)
Propylene glycol	57-55-6	20% (v/v)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for at least 15 minutes. If irritation persists, or chemical burns develop, obtain medical attention when flushing is complete.
EYE CONTACT:	Flush with gently flowing warm water for minimum 15 minutes. Hold eyelids open to ensure thorough flushing. Neutral saline may be used as soon as it is available. Obtain medical attention when flushing is complete and no further irritation is felt.
INGESTION:	Rinse mouth. Do not induce vomiting. Obtain immediate medical attention. If spontaneous vomiting occurs keep head below hips to prevent aspiration of the vomit into the lungs; have victim rinse mouth with water again. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	If inhaled remove person to fresh air and keep comfortable for breathing. Obtain immediate medical attention. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
MOST IMPORTANT SYMPTOMS / EFFECTS:	Causes skin and eye irritation.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT	Immediate first aid or medical attention is required to reduce the chance of permanent injury due to eye contact or skin contact.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	No information available.
SPECIFIC FIRE HAZARDS:	None known.
HAZARDOUS COMBUSTION PRODUCTS:	Not available.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Soak up spills with noncombustible absorbent material. Collect in appropriate containers for disposal. Rinse spill area thoroughly with water.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use in a well-ventilated place.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry place separate from incompatible materials. Keep containers tightly closed and away from sources of heat at all times.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME

Sodium hydroxide
Propylene glycol

EXPOSURE LIMITS

ACGIH TLV-TWA = 2 mg/m³
WEEL TWA = 10 mg/m³ (8 hour weighted average)

ENGINEERING CONTROLS:

Not required under normal conditions of use. If user operations generate vapour or mist use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits. Ensure ventilation equipment is corrosion resistant and separate from other exhaust ventilation systems.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Not required under normal conditions of use. If vapours or mist is generated during use a NIOSH approved respirator or SCBA may be required.

PROTECTIVE GLOVES:

Suggest plastic or rubber.

EYE PROTECTION:

Suggest chemical splash goggles. Do not wear contact lenses when handling this material.

OTHER PROTECTIVE EQUIPMENT (SPECIFY):

Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear colourless liquid

ODOUR:

Odourless

ODOUR THRESHOLD:

Not available

pH:

>14

MELTING POINT / FREEZING POINT:

<-5°C

BOILING POINT / RANGE:

>100°C

FLASH POINT:

Not applicable

EVAPORATION RATE:

Not available

FLAMMABILITY:

Not applicable

FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

VAPOUR PRESSURE:

Not available

VAPOUR DENSITY:

Not available

RELATIVE DENSITY:

>1.0

SOLUBILITY:

Miscible in water

PARTITION COEFFICIENT:

Not available

AUTO-IGNITION TEMPERATURE:

Not applicable

DECOMPOSITION TEMPERATURE:

Not applicable

VISCOSITY:

Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:

Not available.

CHEMICAL STABILITY:

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

None known.

CONDITIONS TO AVOID:

Avoid contact with incompatible materials. Reacts with common metals to produce hydrogen gas.

INCOMPATIBLE MATERIALS:

Strong acids, strong oxidizers and water reactive materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Oral LD50 ATE > 2000 mg/kg

COMPONENT	LD50 (oral)	LD50 (dermal)	LD50 (inhalation)
Sodium hydroxide	Not available	Not available	Not available
Propylene glycol	20 g/kg (rat)	20800 mg/kg (rabbit)	Not available

SKIN CONTACT: May cause burns, irritation, redness and itching. Effects may be delayed.

EYE CONTACT: May cause severe irritation with corneal injury and result in permanent impairment of vision.

INGESTION: May cause burns of mouth, pharynx and gastrointestinal tissues. May cause pain, vomiting, diarrhea, abdominal pain, inflammation of larynx, extensive damage or perforation of the esophagus.

INHALATION: Not an expected route of exposure. Inhalation of vapours or mist may cause irritation or burns to the nose, throat and respiratory tract. Symptoms may include burning sensation, coughing, laryngitis, dyspnea, headache, nausea and vomiting. May cause delayed lung injury.

CARCINOGENICITY: The ingredients of this product are not known to be carcinogenic.

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: No information available.

CHRONIC TOXICITY: No information available.

TARGET ORGAN EFFECTS: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No product information available.

COMPONENT	LC50 (freshwater fish)	EC50 (algae)	EC50 (water flea)
Sodium hydroxide	45.4 mg/L/96 hr (oncorhynchus mykiss)	Not available	Not available
Propylene glycol	41-47 mL/L/96 hr (oncohynchus mykiss)	19000 mg/L/96 hr (pseudokirchneriella subcapitata)	>10000 mg/L/24 hr (daphnia magna)

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG	Regulated*
DOT	Regulated
IATA	Regulated
IMDG	Regulated
UN NUMBER:	1824
PROPER SHIPPING NAME:	SODIUM HYDROXIDE SOLUTION
CLASS:	8
PACKING GROUP:	II
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not available

***NOTE: Lab reagent size product can be shipped as a LIMITED QUANTITY.**

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed.
WHMIS CLASS:	E
TSCA:	All ingredients are listed.

SECTION 16: OTHER INFORMATION

REVISION DATE:	May 16, 2019
PREVIOUS VERSION DATE:	Not applicable

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