

This product uses electrolysis method which results
.in pure liquid caustic soda and free of metal impurities
%33-%30 It is marketed in two types as liquid with
standard and conventional 364 according to ISIRI %50-%48 and
caustic soda of industrial consumer units as well
.purity %99.5 as flake caustic soda in

.Physical specifications: Colorless and odorless liquid

.Easily soluble in cold water

Stability and reactions: It is stable and absorbs air carbon dioxide rapidly and reacts strongly with organic and inorganic materials

Handling and storage: Keep away from heat and incompatible .material. It release sever heat next to water

Environmental precautions: In case of leakage collect by dirt and

.sand and clean with thin acetic acid







NaOH	50 %± 2
1% Max	Na2CO3
60ppm Max	NaCl
ND	Hg
5ppm Max	Fe
Heavy Metals	ND







Section 1. Identifica	tion	
Product Identifier	Sodium Hydroxide (Caustic Soda) Liquid	Version: 7 Effective Date: 25 January 2021
Other Means of Identification	Caustic soda	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Metal finishing, cleaning agent, chemical processing. No restrictions.	
Product Family	Inorganic base	
Emergency Phone	-855-887-2055 Monday - Friday	8:00am - 4:30pm MST

Section 2. Hazard Identifica	ition
Hazard Classification	
Physical Hazards	Corrosive to Metals – Category 1
Health Hazards	Skin Corrosion/Irritation - Category 1 Eye Damage/Irritation - Category 1 Specific Target Organ Toxicity (Single Exposure) - Category 3
Environmental Hazards	Hazardous To The Aquatic Environment – Short Term (Acute) Hazard – Category 3
Signal Word	Danger
Hazard Statement	May be corrosive to metals. Causes severe skin burns and serious eye damage. May cause respiratory irritation or may cause drowsiness or dizziness. Harmful to aquatic life.
Precautionary Prevention Statement	Keep in original packaging only. Do not inhale dust or mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, and eye & face protection. Use only outdoors, or in a well-ventilated area. Avoid release to the environment.
Precautionary Response Statement	Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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	Baiety Bata Sheet
	IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water or shower if on clothing. Launder contaminated clothing before reuse.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
	Specific Treatment: Do not induce vomiting unless directed by medical personnel.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
Precautionary Storage Statement	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations.
Other Hazards	None

Section 3. Compos	ition / Information on Ingredien	its	
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifier	% by weight
Sodium hydroxide	Caustic soda	1310-73-2	30-60

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists, seek medical attention.  Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Irritation, nausea, headache, shortness of breath, lachrymator.
Immediate Medical Attention and Special Treatment	Treatment based on sound judgement of physician and individual reactions of the patient.





Section 5. Fire-Fighting M	Section 5. Fire-Fighting Measures		
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.  NOTE: Do not direct a solid stream of water or foam into burning molten material, this may cause spattering and spread the fire. Contact with water or moisture may generate enough heat to ignite combustibles. Reacts with metals to from combustible hydrogen gas.		
Hazardous Combustion Products	Oxides of sodium.		
Specific Hazards Arising From the Product	Combustion products may include oxides of carbon and other toxic vapours. Thermal decomposition can lead to release of irritating gases and vapours. Corrosive to metals with the production of hydrogen gas.		
Special Protective Equipment and Precautions For Fire- Fighters	Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.		

Section 6. Accidental Release Measures		
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves, coveralls, chemical resistant footwear, and safety glasses.  Keep unprotected persons away. Ensure adequate ventilation. Contain spilled material by diking. Transfer to a disposal or recovery container.	
Environmental Precautions	Do not allow spilled material to enter sewers and surface watercourses.	
Methods and Materials For Containment and Clean-Up	Pump or mop up, place in an appropriate container for disposal. Isolate spill, then dike the area to contain the spill. Dilute the spill with large amounts of water and neutralize with a weak acid solution. Collect liquid for proper disposal. Flush area with water to remove residues.	

Precautions For Safe Handling	Handle with care – Corrosive material. Avoid contact with eyes, skin and clothing. Empty containers may contain hazardous residues.
Conditions For Safe	Store in a cool dry place. Keep containers closed when not in use.
Storage	Protect containers from physical damage. Store away from incompatible materials.







Section 8. Exposure Contr	ols / Personal Pro	100000000000000000000000000000000000000	ory Date	SACCO
Control Parameters Sodium hydroxide	TWA: 8 Hr 2 mg/m3 (ACGIH)	STEL: 15 min	Ceiling	<b>IDLH *</b> 10 mg/m <sup>3</sup>
		Dangerous to Life and	Health	
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure safety sh	ower and eye wash st	ation are availa	ible.
Individual Protective	Should be worn	if exposure limits are	exceeded:	
Measures	///			
Eye / Face Protection	Safety glasses			
Skin Protection		ant coveralls and glove	es	
Respiratory Protection		spirator fitted with HI	William Control of the Control of th	

Section 9. Physical and Chemical Properties			
Appearance	Clear colourless liquid		
Odour	No odour		
Odour Threshold	No data.		
pH	14		
Flash Point	Not applicable		
Boiling Point and Boiling Range	115 – 140 °C		
Melting Point and Freezing Point	1 - 12 °C		
Evaporation Rate	Not applicable		
Flammability (solid, gas)	Not applicable		
Upper and Lower Flammability or Explosive Limits	No data		
Vapour Pressure	Not applicable		
Vapour Density	Not applicable		
Relative Density	1.33 – 1.53		
Solubility	Soluble		
Partition co-efficient, n- Octanol/Water	No data		
Auto-ignition Temperature	Not applicable		
Decomposition Temperature	No data AL TRADING CO		
Viscosity	No data		

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Reactivity	Reacts violently with acids.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Excessive heat and moisture.
Incompatible Materials	Common metals and their alloys, acids, acid anhydrides, oxidizing materials. Water can cause violent and explosive reactions.
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use.

Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	500mg/kg (Rabbit)		
Likely Routes of Exposure		The same of the sa	0/00/00/04/4 Mp. 40
Skin:	Can cause seve	ere chemical burns w	ith blistering.
Eyes:			<ul> <li>in. May induce ulceration of the age causing blindness.</li> </ul>
Inhalation:	Causes severe lung damage.	respiratory irritation.	High concentrations may cause
Ingestion:			at and stomach. May cause pain, vere scarring of tissue and death
Acute Toxicity Estimates (ATE)	Not classified		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity			l is extremely destructive to the d upper respiratory tract.
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified	COTO	U
Skin Corrosion / Irritation	Causes severe	burns	. •
Serious Eye Damage / Irritation	Corrosive	IICAL TRADING	G CO
Respiratory or Skin Sensitization	Does not cause	e skin sensitization.	
Carcinogenicity	Not listed.		

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Not classified		
Not classified		
Not classified		
Not classified		
None known		
None available		
	Not classified  Not classified  Not classified  None known	Not classified  Not classified  Not classified  None known

Ecotoxicity	LC50: 1149 mg/l (Rainbow trout) LC50: 152 mg/l (Chinook salmon)
Persistence and Degradability	Will not persist
<b>Bioacumulative Potential</b>	No data
Biodegradability	No data
Mobility in Soil	Not available
Other Adverse Effects	Very toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment

Section 13. Disposal Info	rmation
Disposal Information	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Infor	mation
UN Number	1824
<b>UN Proper Shipping Name</b>	Sodium hydroxide solution
Transport Hazard Class(es)	8
Packaging Group	II TO (OTO)
<b>Environmental Hazards</b>	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

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Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other	Information
NFPA Rating	Health-3/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-3/Flammability-0/Reactivity-1/Personal Protection-See Section 8
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	7 July, 2011
Date of Latest Re	vision: 25 January 2021
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