


Safety Data Sheet

Section 1. Chemical Product and Company Identification	
Product Name:	Sodium Hydroxide / Caustic Soda Beads Version: 6 Effective Date: 25 January 2021
Supplier:	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Material Uses	Metal finishing, cleaning agent, chemical processing
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST
WHMIS	
	
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR	
HMIS Ratings for this product are: Health 3 , Flammability 0 , Reactivity 0	

Section 2. Composition and Information on Ingredients		
Name	CAS#	% by weight
Sodium hydroxide	1310-73-2	96 - 100
See Section 8 for information on permissible exposure limits and threshold limit values		

Section 3. Hazards Identification	
Physical State and Appearance	White, granular solid
Hazard Summary	Corrosive
Routes of Exposure	Skin, eyes, inhalation. ingestion
Potential Acute Health Effects	Skin: Corrosive. Causes severe burns. Will cause burns with deep ulcerations, leading to scarring. Prolonged contact can destroy tissue. May cause dermatitis.

	<p>Eyes: Corrosive. Causes severe eye burns. Small quantities can result in permanent damage and /or loss of vision.</p> <p>Inhalation: Corrosive. Inhalation of dusts or mists can cause damage to the upper respiratory tract and to the lung tissue depending on the degree of exposure. Effects can range from mild irritation to severe pneumonitis to complete destruction of the lung tissue.</p> <p>Ingestion: Corrosive. Ingestion can cause damage/burns to the mucous membranes, mouth and digestive tract. Ingestion of the product may result in death.</p>
Medical Conditions Aggravated by Exposure	No data
See Toxicological Information – Section 11	
Additional Hazard Identification Remarks	None

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	Give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Notes to Physician	Treatment based on sound judgement of physician and individual reactions of the patient
Additional First Aid Remarks	None

Section 5. Fire Fighting Measures	
Flammability of the Product	Non flammable
Flash Point	Not applicable
Explosive Limits	Not applicable
Auto Ignition Temperature	Not applicable
Static Discharge	No
Suitable Extinguishing Media	Use extinguishing media suitable for surrounding fire
Hazardous Combustion Products	No data

Precautions for Fire Fighting	Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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Section 6. Accidental Release Measures	
Personal Precautions	Gloves, coveralls, chemical resistant footwear, safety glasses
Environmental Precautions	Do not allow the product to enter surface drains and water courses
Methods for Clean Up	Scoop up or vacuum up, place in an appropriate container for disposal. Avoid raising dust. Isolate spill. If the material has been diluted with water or any other liquid, then dyke the area to contain the spill. Dilute the spill with large amounts of water and neutralise with a weak acid solution. Collect liquid for proper disposal. Flush area with water to remove residues.

Section 7. Handling and Storage	
Handling	Handle with care, very corrosive material. Avoid raising dust when handling this material. Always add Caustic soda / sodium hydroxide to lukewarm water with constant agitation. Use of hot water or addition without agitation may cause localised heating which can result in boiling of the liquid and eruption of material from the mixing vessel.
Storage	Store in a cool dry place, keep container closed when not in use

Section 8. Exposure Controls and Personal Protection				
Exposure Guidelines	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH*
Sodium hydroxide	2 mg/m ³ Ceiling (ACGIH)			10 mg/m ³
*Immediately dangerous to life or health				
Exposure Controls	Local exhaust ventilation			
Personal Protection				
Respiratory	If exposure limits are exceeded an air purifying respirator fitted with the appropriate cartridges must be worn			
Skin	Gloves, chemical resistant coveralls and footwear			
Eyes	Safety glasses or full face shield			
Other	None			

Section 9. Physical and Chemical Properties	
Physical State and Appearance	White, granular solid
Odour Threshold	Not applicable
pH	12 (10 % solution)
Boiling Point	1390 °C
Melting Point / Freezing point	310 – 320 °C
Evaporation Rate	No data
Vapour Density	Not applicable
Vapour Pressure	Not applicable
Specific Gravity / Relative Density	2.13 @ 20 °C
Solubility in Water	Very soluble
% Volatile	Not applicable
Other Data	None

Section 10. Stability and Reactivity	
Chemical Stability	Stable
Hazardous Polymerisation	Will not occur
Conditions to Avoid	Addition of water directly to product
Materials to Avoid	Tin, aluminum, zinc, leather, wool, acids. Organic halogen compounds or organic nitro compounds. Magnesium metal, brass, bronze. Carbon monoxide gas may be produced on contact with reducing sugars. Water can cause violent and explosive reactions.
Hazardous Decomposition Products	None anticipated

Section 11. Toxicological Information	
Principle Routes of Exposure	
Skin:	Corrosive. Causes severe burns. Will cause burns with deep ulcerations, leading to scarring. Prolonged contact can destroy tissue. May cause dermatitis.
Eyes:	Corrosive. Causes severe eye burns. Small quantities can result in permanent damage and /or loss of vision.
Inhalation:	Corrosive. Inhalation of dusts or mists can cause damage to the upper respiratory tract and to the lung tissue depending on the degree of exposure. Effects can range from mild irritation to severe pneumonitis to complete destruction of the lung tissue.
Ingestion:	Corrosive. Ingestion can cause damage/burns to the mucous membranes, mouth and digestive tract. Ingestion of the product may result in death.
Additional Information	
Acute Toxicity	
Sodium hydroxide	LDLo: 500 mg / kg (Rabbit, oral)

Chronic Toxic Effects - None
Carcinogenicity – Not listed
Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity – None known

Section 12. Ecological Information	
Ecotoxicity	Sodium hydroxide: LC50: 1149 mg/l (Rainbow trout) LC50: 152 mg/l (Chinook salmon)
BOD and COD	No data
Biodegradability / OECD	No data
Toxicity of the Products of Biodegradation	No data
Special Remarks	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Section 13. Disposal Considerations	
Dispose of in accordance with local, provincial and federal regulations	

Section 14. Transport Information	
TDG Classification	SODIUM HYDROXIDE, SOLID Class 8, UN 1823 Packing Group II
Emergency Response Guide #	ERG # 154
Marine Pollutant	No
Special Precautions	None

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or 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
WHMIS Hazard Class	E
Additional Information	None

Section 16. Other Information**Prepared by:**

Chemfax Products Ltd., Technical Department

Date Prepared: July 7, 2011**Revision Date:** 25 January 2021**Disclaimer**

Notice to reader

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