

## PRODUCT: CAUSTIC SODA BEADS

**SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MANUFACTURER:** T. DONOVAN & SON (1997) LTD.  
700 WILSON STREET  
SAINT JOHN, NEW BRUNSWICK  
CANADA E2M 3V2  
TOLL FREE: 1-888-799-2645 / LOCAL (506) 642-1500

**PRODUCT NAME:** Caustic Soda Beads.

**CHEMICAL FORMULA:** NaOH.

**CHEMICAL FAMILY:** Inorganic Alkali.

**MOLECULAR WEIGHT:** 40.0

**MATERIAL USE:** Industrial Use.

**EMERGENCY PHONE NUMBER:** (613)-996-6666

**SECTION 02: HAZARDS IDENTIFICATION**

**SIGNAL WORD:** DANGER

**HAZARD CLASSIFICATION:** Corrosive to Metals - Category 1.  
Skin Corrosion - Category 1.  
Serious Eye Damage - Category 1.

**HAZARD STATEMENT:** **H290:** May be corrosive to metals.  
**H314:** Causes severe skin burns and eye damage.

**PRECAUTIONARY STATEMENT:** **P260:** Do not breathe dust/fume/gas/mist/vapours/spray.  
**P264:** Wash thoroughly after handling.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.  
**P301+P330+P331:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
**P303+P361+P353:** IF ON SKIN (or hair), remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P304+P340:** IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P305+P351+P338:** IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310:** Immediately call a POISON CENTER or doctor/physician.  
**P321:** Specific treatment (see on this label).  
**P363:** Wash contaminated clothing before reuse.  
**P405:** Store locked up.  
**P501:** Dispose of contents/container according to all applicable regulations.

**OTHER HAZARDS:** Harmful to aquatic life.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT(S)	CAS #	WT. %
Sodium Hydroxide	1310-73-2	<= 100

## Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

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**SECTION 04: FIRST AID MEASURES**

<b>GENERAL ADVICE:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>IF INHALED:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>IN CASE OF SKIN CONTACT:</b>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water for at least 20 minutes. Consult a physician.
<b>IN CASE OF EYE CONTACT:</b>	Irrigate eyes for at least 15 minutes with copious amounts of water, keeping eyelids apart and away from eyeballs during irrigation.
<b>IF SWALLOWED:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do not leave victim unattended.

**SECTION 05: FIRE FIGHTING MEASURES**

<b>FLAMMABILITY:</b>	Not combustible/not flammable.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Carbon dioxide, dry chemical, alcohol foam, water fog.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Sodium Oxides.
<b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:</b>	No Data Available.
<b>SPECIAL PROCEDURES:</b>	Evacuate hazard area. Wear full protective equipment including a self-contained breathing apparatus.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

<b>PERSONAL PRECAUTIONS:</b>	Avoid dust formation. Avoid breathing dust and contact with eyes. Use respiratory protection if high dust conditions, chemical resistant gloves and safety glasses.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**SECTION 07: HANDLING AND STORAGE**

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapour. Avoid generation of dust. Wear protective equipment during handling. Use adequate ventilation.
<b>CONDITIONS FOR SAFE STORAGE:</b>	Keep the container tightly closed when not in use. Store away from incompatible materials. Store in a cool and well-ventilated area.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	REL
Sodium Hydroxide	2 mg/m <sup>3</sup>				

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists.  
 NIOSH - National Institute for Occupational Safety and Health.  
 OSHA - Occupational Safety and Health Administration.  
 PEL - Permissible Exposure Limit.

RELs - Recommended Exposure Limits.  
 STEL - Short-term Exposure Limit.  
 TLV - Threshold Limit Value.  
 TWA - Time Weighted Average.

<b>ENGINEERING CONTROLS:</b>	Good ventilation should be provided to keep vapour and mist concentrations below the exposure limits.
<b>SKIN AND BODY PROTECTION:</b>	Wear suitable protective clothing. Wear protective gloves. Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>RESPIRATORY PROTECTION:</b>	Use NIOSH approved supplied-air respirator.
<b>EYE/FACE PROTECTION:</b>	Face shield and safety glasses.
<b>OTHER/TYPE:</b>	Eye wash station and safety shower should be located near the work station.

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Solid, Pellets.
ODOUR:	Odourless.
ODOUR THRESHOLD:	No Data Available.
pH:	14.0 (Aqueous Solution: 5%).
MELTING POINT/FREEZING POINT:	318°C.
BOILING POINT:	1390°(C).
FLASH POINT, METHOD:	Not Applicable.
EVAPORATION RATE:	No Data Available.
FLAMMABILITY (SOLIDS AND GASES):	Not Applicable.
UPPER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
LOWER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
VAPOUR PRESSURE:	<24 hPa @20°C.
VAPOUR DENSITY (AIR=1):	1.38.
SPECIFIC GRAVITY (WATER=1):	2.13.
SOLUBILITY IN WATER (% W/W):	Soluble.
AUTO IGNITION TEMPERATURE:	No Data Available.
PARTITION COEFFICIENT N-OCTANOL/WATER:	No Data Available.
DECOMPOSITION TEMPERATURE:	No Data Available.
VISCOSITY:	No Data Available.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:	No Data Available.
CHEMICAL STABILITY:	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	No Data Available
CONDITIONS TO AVOID:	Avoid Moisture.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents. Strong acids. Organic materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Sodium.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENT(S)	LC50	LD50
Sodium Hydroxide	Not Established	Oral: 2400 mg/kg (Rat) Dermal:> 2000 mg/kg ( <i>Leporidae sp.</i> (Rabbit))

ACUTE TOXICITY:	
ORAL LD50:	See Above.
INHALATION LC50:	No Data Available.
DERMAL LD50:	See Above.
SKIN CORROSION / IRRITATION:	Rabbit- causes severe skin burns.
SERIOUS EYE DAMAGE / EYE IRRITATION:	Rabbit-eyes- corrosive to eyes.
RESPIRATORY OR SKIN SENSITIZATION:	Does not cause skin sensitization.
GERM CELL MUTAGENICITY:	No Data Available.
CARCINOGENICITY:	IARC: no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. ACGIH: no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
REPRODUCTIVE TOXICITY:	No Data Available.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:</b>	No Data Available.
<b>STOT - REPEAT EXPOSURE:</b>	No Data Available.
<b>ASPIRATION HAZARD:</b>	No Data Available.
<b>POTENTIAL HEALTH EFFECTS:</b>	Inhalation: may be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion - harmful if swallowed. Skin - may be harmful if absorbed through skin. Causes skin burns. Eyes - causes eye burns.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>PERSISTENCE AND DEGRADABILITY:</b>	The methods for determining the biological degradability are not applicable to inorganic substances.
<b>BIOACCUMULATIVE POTENTIAL:</b>	No Data Available.
<b>TOXICITY:</b>	Toxicity to Fish - LC50 - <i>Gambusia Affins</i> (Mosquito fish) - 125 mg/L - 96 H. EC50 - <i>Daphnia Magna</i> (Water flea) - 40.38 mg/L - 48H.
<b>MOBILITY IN SOIL:</b>	No Information Available.
<b>OTHER ADVERSE EFFECTS:</b>	Harmful to Aquatic Life.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>DISPOSAL METHODS:</b>	In accordance with Municipal, Provincial and Federal Regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product.
<b>PACKAGING:</b>	No Data Available.

**SECTION 14: TRANSPORT INFORMATION**

<b>TRANSPORTATION OF DANGEROUS GOODS (TDG):</b>	Regulated.
<b>UNITED NATIONS (UN) NUMBER:</b>	1823
<b>TRANSPORT HAZARD CLASS:</b>	8
<b>PACKING GROUP:</b>	II
<b>PROPER SHIPPING NAME:</b>	SODIUM HYDROXIDE, SOLID.
<b>SPECIAL SHIPPING INSTRUCTIONS:</b>	Refer to the TDG Regulations.

**SECTION 15: REGULATORY INFORMATION**

<b>WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:</b>	E.
<b>HAZARDOUS PRODUCT REGULATIONS (HPR) COMPLIANCE:</b>	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**SECTION 16: OTHER INFORMATION**

<b>PREPARED BY:</b>	T. Donovan & Son (1997) Ltd.
<b>PREPARATION DATE:</b>	May 2018.

**DISCLAIMER:**

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