

# **Safety Data Sheet**

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier	
Product Name	・ Caustic Soda Beads
Synonyms	<ul> <li>Anhydrous Sodium Hydroxide; Caustic Soda; NaOH; PELS® Caustic Soda Beads; PELS® Plus Caustic Soda Beads; Sodium Hydroxide</li> </ul>
CAS Number	• 1310-73-2
EC Number	• 215-185-5
Molecular Formula	• :H 1:O 1:Na 1:
1.2 Relevant identified u	uses of the substance or mixture and uses advised against
Relevant identified use(s)	Chemical reagent; Industrial uses
1.3 Details of the suppli	er of the safety data sheet
Manufacturer Telephone (Genera	<ul> <li>Panther Industries Inc. 108 Internal Road</li> <li>Davidson, SK Canada www.pantherindustriesinc.com clayton.panther@sasktel.net</li> <li>+1 306 567 2814</li> </ul>
Responsible Party - EU	Same as above
Responsible Faily - LU	

# 1.4 Emergency telephone number

Manufacturer • +1 306 567 2814

#### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

#### 2.1 Classification of the substance or mixture

CLP

• Skin Corrosion 1A - H314

# 2.2 Label Elements

CLP

Hazard statements • Precautionary statements	DANGER H314 - Causes severe skin burns and eye damage.
-	P260 - Do not breathe dust.
Frevention •	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response •	<ul> <li>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P310 - Immediately call a POISON CENTER or doctor/physician.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P321 - Specific treatment, see supplemental first aid information.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> </ul>
Storage/Disposal •	P405 - Store locked up. P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
2.3 Other Hazards	
CLP ·	According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

### **UN GHS Revision 3**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

#### 2.1 Classification of the substance or mixture

**UN GHS** 

- Skin Corrosion 1B Serious Eye Damage 1
- 2.2 Label elements

**UN GHS** 

# DANGER



Hazard statements • Causes severe skin burns and eye damage. Causes serious eye damage

**Precautionary statements** 

-	
Prevention •	Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response •	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower. Wash contaminated clothing before reuse. Specific treatment, see supplemental first aid information. 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 or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Storage/Disposal •	C C
2.3 Other hazards	
	According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous
United States (US) According to: OSHA 29 CFR 1910	0.1200 HCS
2.1 Classification of the su	bstance or mixture
OSHA HCS 2012 ·	Serious Eye Damage 1 Skin Corrosion 1B
2.2 Label elements OSHA HCS 2012	
	DANGER
Hazard statements •	Causes severe skin burns and eye damage. Causes serious eye damage
Precautionary statements	
Prevention •	Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response •	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Specific treatment, see supplemental first aid information. 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/ . IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Storage/Disposal •	Dispose of content and/or container in accordance with local, regional, national, and/or
	international regulations.

# 2.3 Other hazards

OSHA HCS 2012	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication
	Standard), this product is considered hazardous.

# Canada

According to: WHMIS 2015

# 2.1 Classification of the substance or mixture

- **WHMIS 2015**
- Serious Eye Damage 1 Skin Corrosion 1B

## 2.2 Label elements

WHMIS 2015	
	DANGER
Hazard statements •	Causes severe skin burns and eye damage. Causes serious eye damage
Precautionary statements	
Prevention •	Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response •	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Specific treatment, see supplemental first aid information. 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/ . IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Storage/Disposal •	-
2.3 Other hazards	
WHMIS 2015 •	In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

# Section 3 - Composition/Information on Ingredients

# 3.1 Substances

	Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	
Sodium hydroxide	CAS:1310-73-2 EC Number:215- 185-5 EU Index:011-002- 00-6	96% TO 100%	NDA	EU CLP: Annex VI, Table 3.1: Skin Corr. 1A, H314 UN GHS Revision 3: Skin Corr. 1B; Eye Dam. 1 OSHA HCS 2012: Skin Corr. 1B; Eye Dam. 1 WHMIS 2015: Skin Corr. 1B; Eye Dam. 1	
CAS:7647-14-5         0% TO           EC Number:231-         2%			Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU CLP: Self Classified: Eye Irrit. 2, H319 UN GHS Revision 3: Eye Irrit. 2; Skin Irrit. 3; Acute Tox. 5 (oral) OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2	
Sodium carbonate (2:1)         CAS:497-19-8 EC Number:207- 838-8 EU Index:011-005- 00-2         0% TO 2%			Ingestion/Oral-Rat LD50 • 4090 mg/kg Inhalation-Rat LC50 • 2300 mg/m <sup>3</sup> 2 Hour(s)	EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319 UN GHS Revision 3: Eye Irrit. 2; Acute Tox 5 (oral) OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Acute Tox. 4 (Inhalation); Eye Irrit. 2; STOT SE 3: Resp. Irrit.	

# 3.2 Mixtures

 Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 16 for full text of H-statements.

Section	4 -	<b>First Aid</b>	Measures
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## 4.1 Description of first aid measures

Inhalation	• Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air.
Skin	• For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing.
Еуе	<ul> <li>In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
Ingestion	<ul> <li>If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.</li> </ul>
4.2 Most important sym	ptoms and effects, both acute and delayed
	Refer to Section 11 - Toxicological Information.
4.3 Indication of any im	mediate medical attention and special treatment needed

Notes to Physician

• All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

# **Section 5 - Firefighting Measures**

#### 5.1 Extinguishing media

5 5	
Suitable Extinguishing Media	<ul> <li>SMALL FIRES: Dry chemical or carbon dioxide. LARGE FIRES: Dry chemical, carbon dioxide, alcohol-resistant foam or water spray.</li> </ul>
Unsuitable Extinguishing Media	No data available
5.2 Special hazards arisi	ng from the substance or mixture
Unusual Fire and Explosion Hazards	Containers may explode when heated.
Hazardous Combustion Products	• Depending on conditions, decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.
5.3 Advice for firefighters	i de la constante d
	<ul> <li>Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.</li> <li>Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.</li> <li>Wear positive pressure self-contained breathing apparatus (SCBA).</li> </ul>

SMALL FIRES: Move containers from fire area if you can do it without risk.

# **Section 6 - Accidental Release Measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions	<ul> <li>Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate the area before entry.</li> </ul>
Emergency Procedures	<ul> <li>ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.</li> </ul>
6.2 Environmental prec	autions
	<ul> <li>Prevent entry into waterways, sewers, basements or confined areas.</li> </ul>
6.3 Methods and materi	al for containment and cleaning up
Containment/Clean-up Measures	<ul> <li>Avoid generating dust. Carefully shovel or sweep up spilled material and place in suitable container.</li> </ul>
6.4 Reference to other s	sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

#### Section 7 - Handling and Storage

## 7.1 Precautions for safe handling

Handling Handle and open container with care. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not aet in eves, on skin, or on clothing. Do not ingest. Add this product only to water. Never add water to this product. Do not add to warm or hot water, a violent eruption or explosive reaction can result. May cause fire or explosion. Avoid contact with organic materials. Take any precaution to avoid mixing with strong acids. When making solutions or diluting, only add caustic soda slowly to surface of cold water while stirring. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Caustic soda may react with various sugars to generate carbon monoxide. Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed vessels and can cause death. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage

 Ventilate enclosed areas. Keep only in the original container. Keep container tightly closed. Keep away from incompatible materials. Store in a cool, dry, well-ventilated place.

# 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

# Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Ontario	Canada Quebec	NIOSH
Sodium hydroxide (1310-73-2)	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling
Exposure Limits/Guidelines (Con't.)						
	Result OSHA					

2015

Sodium hydroxide (1310-73-2)		TWAs	2 mg/m3 TWA
8.2 Exposure controls			
Engineering Measures/Controls	conditions. engineerin	If applicable, use p g controls to maintai	d be used. Ventilation rates should be matched to rocess enclosures, local exhaust ventilation, or other n airborne levels below recommended exposure limits. n established, maintain airborne levels to an acceptable
Personal Protective Equipme	nt		
Respiratory	appropriate complying Respirator hazards of	e, certified respirators with an approved st selection must be b the product and the	entrations above the exposure limit, they must use s. Use a properly fitted, air-purifying or air-fed respirator andard if a risk assessment indicates this is necessary. ased on known or anticipated exposure levels, the safe working limits of the selected respirator.
Eye/Face		nical splash goggles	
Skin/Body	being perfo handling th an approve a risk asse by the glov protective material m consisting	ormed and the risks i is product. HANDS: ed standard should b ssment indicates th re manufacturer, che properties. It should ay be different for dif	for the body should be selected based on the task nvolved and should be approved by a specialist before Chemical-resistant, impervious gloves complying with e worn at all times when handling chemical products if is is necessary. Considering the parameters specified ck during use that the gloves are still retaining their be noted that the time to breakthrough for any glove ferent glove manufacturers. In the case of mixtures, es, the protection time of the gloves cannot be
Environmental Exposure Controls	procedures	s to prevent spills, at	to prevent release to the environment, including mospheric release and release to waterways. Follow ent and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

# Section 9 - Physical and Chemical Properties

# 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White dustless granules with no odor.
Color	White	Odor	Odorless
Odor Threshold	No data available		
General Properties			
Boiling Point	1390 °C(2534 °F)	Melting Point/Freezing Point	310 to 320 °C(590 to 608 °F)
Decomposition Temperature	No data available	рН	Strongly basic
Specific Gravity/Relative Density	= 2.13 Water=1	Water Solubility	100 %
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %

#### Flammability

Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

## 9.2 Other Information

• No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity	

#### 10.1 Reactivity

· No dangerous reaction known under conditions of normal use.

#### **10.2 Chemical stability**

• Stable under recommended storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

• Under normal conditions of storage and use, hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

· Incompatible materials. Excess heat.

#### **10.5 Incompatible materials**

 Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. Reactive or incompatible with the following materials: metals (Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.), acids, organic materials (May cause fire or explosion.), food sugars (Caustic soda may react with various sugars to generate carbon monoxide.), water (Aqueous reaction with caustic soda can generate heat (strongly exothermic).

#### **10.6 Hazardous decomposition products**

• Depending on conditions, decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

# Section 11 - Toxicological Information

# 11.1 Information on toxicological effects

		Components
Sodium hydroxide (96% TO 100%)	1310- 73-2	Irritation: Eye-Monkey • 1 % 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Severe irritation
		Impurities, Stabilizers, etc
Acute Toxicity:         Ingestion/Oral-Rat LD50 • 4090 mg/kg; Inhalation-Rat LC50 • 2300 mg/m³ 2 Hour(s); Lungs, Thorax, or Respiration:Dyspnea; Gastrointestinal:Other changes;           Sodium carbonate (2:1) (0% TO 2%)         497-19- 8         Irritation: Eye-Rabbit • 50 mg • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 16.2 mg/m³ 16 Week(s)-Intermittent; Sense Organs and Special Senses:Olfaction:Change in sensation of smell; Lungs, Thorax, or Respiration:Emphysema; Immunologic		
		Including Allergic:Decrease in cellular immune response
		Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; Vascu/ar:BP elevation not
Sodium chloride (0% TO 2%)		characterized in autonomic section; Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; Reproductive: Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); Reproductive Effects:Maternal

*Effects*:**Postpartum**; *Reproductive Effects:Effects on Newborn*:**Biochemical and metabolic** 

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1A UN GHS 3 • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B
Serious eye damage/Irritation	EU/CLP • Classification criteria not met UN GHS 3 • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1
Skin sensitization	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met WHMIS 2015 • Classification criteria not met

### Potential Health Effects Inhalation

# Acute (Immediate)

Chronic (Delayed)

#### Skin

Acute (Immediate)

Chronic (Delayed)

#### Eye

Acute (Immediate)

Chronic (Delayed)

#### Ingestion

# Acute (Immediate)

Chronic (Delayed)

#### Key to abbreviations

LC = Lethal Concentration LD = Lethal Dose TC = Toxic Concentration TD = Toxic Dose

- · May cause corrosive burns irreversible damage.
- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.
- · Causes severe skin burns.
- · Repeated or prolonged exposure to corrosive materials will cause dermatitis.
- Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.
- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.
- · May cause irreversible damage to mucous membranes.
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal distrubances.

# Section 12 - Ecological Information

# 12.1 Toxicity

	CAS	
Caustic Soda Beads	1310-73-2	Aquatic Toxicity-Fish:96 Hour(s) LC50 Gambusia affinis - Adult 125000 μg/L [Fresh water]96 Hour(s) NOEC Poecilia reticulata - Young 56 mg/L [Marine water]96 Hour(s) LC50 Guppy - Poecilia reticulata 196 mg/L [Marine water]96 Hour(s) NOEC Guppy - Poecilia reticulata 56 mg/L [Marine water]96 Hour(s) NOEC Guppy - Poecilia reticulata 56 mg/L [Marine water]40 Hour(s) NOEC Guppy - Poecilia reticulata 56 mg/L [Marine water]41 Aquatic Toxicity-Crustacea:48 Hour(s) EC50 Water Flea Ceriodaphnia dubia 40.4 mg/L [Fresh water]48 Hour(s) LC50 Crangon - adult 33000-100000 μg/L [Marine water]

# 12.2 Persistence and degradability

· Material data lacking.

# 12.3 Bioaccumulative potential

· Material data lacking.

# 12.4 Mobility in Soil

• Water solubility: Soluble.

# 12.5 Results of PBT and vPvB assessment

• No PBT and vPvB assessment has been conducted.

#### 12.6 Other adverse effects

• No studies have been found.

# Section 13 - Disposal Considerations

# **13.1 Waste treatment methods**

**Product waste** 

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1823	Sodium hydroxide, solid	8	II	NDA
TDG	UN1823	SODIUM HYDROXIDE, SOLID	8		NDA
IMO/IMDG	UN1823	SODIUM HYDROXIDE, SOLID	8		NDA
IATA/ICAO	UN1823	Sodium hydroxide, solid	8		NDA

**14.6 Special precautions for** • None specified. **user** 

14.7 Transport in bulk • Data lacking. according to Annex II of MARPOL 73/78 and the IBC Code

#### **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Hazard Classifications • Acute

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Sodium carbonate (2:1)	497-19-8	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes
Sodium hydroxide	1310-73-2	Yes	No	Yes	No	Yes

# Canada

Labor Canada - WHMIS - Classifications of Substances		
Sodium hydroxide	1310-73-2	E (including 0.04% in aqueous solution, 0.04N, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N)
Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
Sodium carbonate (2:1)	497-19-8	D2B, E
Canada - WHMIS - Ingredient Disclosure List		
Sodium hydroxide	1310-73-2	1 %
Sodium chloride	7647-14-5	Not Listed
	_	

Sodium carbonate (2:1)	497-19-8	1 %
Environment		
Canada - CEPA - Priority Substances List		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
Jnited States		
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg final RQ
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed

Sodium carbonate (2:1)	497-19-8	Not Listed	
U.S TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
Sodium carbonate (2:1)	497-19-8	Not Listed	

#### **United States - California**

Environment		
U.S California - Proposition 65 - Carcinogens List		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
Sodium carbonate (2:1)	497-19-8	Not Listed

## **15.2 Chemical Safety Assessment**

· No Chemical Safety Assessment has been carried out.

#### **15.3 Other Information**

 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

# **Section 16 - Other Information**

#### Relevant Phrases (code & full text)

·	•	H319 - Causes serious eye irritation
Revision Date	•	17/May/2016
Preparation Date	•	12/May/2014

Other Information	<ul> <li>NSF® Standard 60 Drinking Water Treatment Chemicals – PELS™ Caustic Soda Beads and PELS™ Plus Caustic Soda Beads have Health Effect Listing and are certified for maximum use of 100 mg/l.</li> </ul>
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Key to abbreviations	

NDA = No Data Available