H-3491

1. PRODUCT AND COMPANY IDENTIFICATION

Distributed By:

Product Name:

H-3491 -Sodium Hydroxide Beads

Product Use:

A Analytical Testing

Reagent 24-Hour Emergency Response

Number:



Humboldt Manufacturing Co. 875 Tollgate Road Elgin, IL 60123 Phone: (708) 456-6300



Masters Company Inc.

800-424-9300 CHEMTREC®

890 Lively Blvd., Wood Dale, IL. 60191

Manufactured By:

Phone: 630-238-9292

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies

DOT Label(s)

GHS Pictogram(s)

HMIS

Personal Protective Equipment(s)

Corrosive















2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION/LABEL ELEMENTS

Signal Word	GHS Pictogram(s)	Hazard Statements	Precautionary Statements
"DANGER"	Corrosive	H302-Harmful if swallowed. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled. H413-May cause long lasting harmful effects to aquatic life.	P102-Keep out of reach of children. P233-Keep container tightly closed. P262-Do not gets in eyes, on skin or on clothing. P264-Wash thoroughly after handling. P281-Use personal protective equipment as required.

3. PRODUCT INGREDIENTS				
Hazardous Components	% by Wt.	CAS Number	Hazard Statements (Section 15)	GHS Hazard Pictogram(s)
Sodium Hydroxide	95-100	1310-73-2	H302-Harmful if swadas and. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled. H413-May cause long lasting harmful effects to aquatic life.	
Non Hazardous Ingredient	0-5			
Total	100			

4. FIRST AID MEASURES

Skin:

Ingestion

Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.

Call a physician if any difficulties persist.

Eyes:

Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid,

get appropriate in-plant, paramedic or community medical support.

Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek

medical attention if any irritation persists.

If person can swallow, give 2 glasses of water to drink. DONOT INDUCE VOMITING! After first aid, seek appropriate in-plant,

paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE FIGHTING MEASURES

Flammability Classification:

Non Flammable

Suitable Extinguishing Media: **Unusual Fire or Explosion Hazards:** Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical

Hazardous Combustion Products:

None known other than material can splatter above 100°C/212°F. Unknown but carbon monoxide may be released on burning.

Fire-Fighting Instructions: Fire-Fighting Equipment:

Do not release runoff from fire control methods to sewers or waterways.

Do not release runor.

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

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6. ACCIDENTIAL RELEASE MEASURES

Personal Precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Small Spills:

Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.

Large Spills:

For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with

Containment:

vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.

Cleanup:

Environmental

Accumulate the absorbed materials and dispose of according to federal, state and local regulations.

Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that

Precautions:

may apply.

7. HANDLING AND STORAGE

Precautions for safe handling:

Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other

combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.

Conditions for safe Storage:

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the

material to temperature extremes.

Regulatory

Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

Requirements:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS Number	OSHA PEL/TWA STEL	ACGIH TLV/TWA STEL	Other
Sodium Hydroxide	1310-73-2	2 mg/m3	2 mg/m3	
			211.0/	

Engineering Controls:

Ventilation:

Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at

Respiratory Protection:

Seek professional advice polor to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Personal Protective Equipment (PPE):

Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective

gloves and aprons to prevent prolonged or repeated skin contact.

Safety Stations: Contaminated Equipment:

Make emergency eyewash stations, safety/quek-drench showers, and washing facilities available in work area. Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments:

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Work/Hygienic Practices

Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

Form:	Solid	Appearance:	White or off-white	Ta v	
pH: Of 1% solution	14.00+/-			Odor:	Odorless
Specific Gravity:	100 - 0	Vapor Pressure:	NA	Flammability:	Non-flammable
Water Solubility:		Vapor Density:	NA	Flash Point:	NA
Other Solubilities:		- Por acion Mate:	NA ·	Auto Ignition Temp:	
% Volatile:	T	Freeze/Melting Point:	310-320°C/590-608°F	LEL:	Not Determined
Boiling Point:	1390°C	Decomposition Temp:	Not Determined	UEL:	Not Determined

10. STABILITY AND REACTIVITY

Stability:

Products:

This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.

Conditions to Avoid:

Excessive temperature, contact with any type of reactive chemicals

Hazardous Polymerization: Chemical Incompatibilities: Hazardous polymerization will not occur,

Hazardous Decomposition

Avoid contact with Strong Acids, Strong Alkalis, Oxidizers or any other type of reactive material.

There are no known born Acids, Strong Alkalis, Oxidizers or any other type of reactive material is because of the property of the material is because of the property of the material is because of the property of the pr There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution.

case undetermined evolution of toxic gases may occur.

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11. TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS No :	LD50 of Ingredient (Specify Species & Route)	LD50 Dermal of Ingredient (Specify Species)
Sodium Hydroxide	1310-73-2	500mg/kg Oral Rabbit 40mg/kg Oral Mouse	500mg/kg 24hr Rabbit

Primary Irritant Effects:

Routes of Entry:

Absorbed through skin, Dermal Contact, Eye Contact, Inhalation.

Eve Effects:

Irritation to eyes & possible burning if materials are not immediately rinsed from the eye.

Acute Inhalation Effects:

Might produce irritation to respiratory system.

Skin Effects:

Irritation to skin.

Acute Oral/Ingestion Effects:

Not tested for this blend. Harmful if swallowed.

Chronic Effects on Humans:

No specific studies have been conducted for this specific blend. No specific studies have been conducted for this specific blend.

Other Toxic Effects on Humans: Special Remarks- Human Chronic Effects:

Carcinogenity:

No other information for chronic effects on humans.

Mutagenicity:

IARC, NTP, and OSHA do not list this product or its components as a carcinogen. No mutagenic effects are known to be applicable for the formulation components of this product.

No studies have been performed for this specific product blend.

Teratogenicity: **Target Organ Statement:**

No studies have been conducted for this specific product blend.

12. ECOLOGICAL INFORMATION		The second secon	
Hazardous Components	CAS No.:	LC:50	EC:50
Sodium Hydroxide	1310-73-2	25ppm 24 hour Brook Trout 45.4 mg/l 96 hr Rainbow Trout	40.38 mg/l 48hr Daphnia Magna
Special Remarks-Products of biodegradation:	This material is inorganic and not subject to biodegradable.		

13. WASTE DISPOSAL CONSIDERATIONS

Disposal Regulatory Requirements:

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal,

state and local regulations.

Container Cleaning and Disposal:

Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.

Proper Shipping Name:	Corrosive Material	Corrosive Material			DOT Shipping Label(s)
Contains:	Sodium Hydroxide		and the second section of the s		1 ^
Hazard Class:	Marine Pollutant:	UN Number:	Packing Group:	ERG Number:	
8	No	182 4	ì	154	
Special Shipping Notations: Note: Transportation information	None				

15. REGULATORY INFOR	RMATION			
Hazard Symbols:				
Hazard Statements:	H302-Harmful if swallowed.			
	H312-Harmful in contact with skin.			
	H314-Causes severe skin burns and eyedamage.			
	H332-Harmful if inhaled.			
W - C - C - C - C - C - C - C - C - C -	H413-May cause long lasting harmful effects to aquatic life.			
Precautionary Statements:	P102-Keep out of reach of children.			
	P233-Keep container tightly closed.			
	P262-Do not gets in eyes, on skin or on clothing.			
	P264-Wash thoroughly after handling.			
	P281-Use personal protective equipment as required.			
	P301+P330+P331: If swallowed: Rinse mouth. Do not induce vomiting			
	P302+P350: If on skin: Gently wash with soap and water			
	P403-Store in a well ventilated place.			
	FPA Regulations	20207		

	g anons.
RCRA Hazardous Waste Number:	Product blend is not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261.):	Product blend is not classified.
	Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a),

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CAR, SEC. 222 CENCER IN	eportable Quantity (RQ):	Contains: Sodium Hydroxide 1,000 lb		
SARA 313 Codes: This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.		Not listed		
SARA Toxic Chemical (40CFR 372.65):		Not listed		
Sara 302/304 Extremely Hazardous Substance (40CFR 355)		Net listed		
Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Threshold Planning Quantity (TPQ): OSHA Regulations: Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A):): Not listed Not listed		
				Not listed.
				OSHA Specifically Regulated Substance (29 CFR 1910.):
		State Regulations:	As a product blend, the materials are generally not listed. Check with your local state regulatory board for more de	
National Regulations:	All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act (TSCA) Chemical Substance Inventory.			

16. OTHER INFORMATION

SDS Prepared/Reviewed By: G.S. García-Technical Director

Date of Preparation:

3/1/2015

Employers should use this information only as a supple resident or other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is functional without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

USER'S RESPONSIBILITY

The information and recommendations contained herest cameral severall possible situations which the user man experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All heach and safety information contained in this buileth should be precided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employed restrictions for your operation.

DISCLAIM FOR URBILITY

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As the conditions or methods of use are beyond our control, we do not also any responsibility and expressly disclaim are liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the use of the user.