

Revision Date 23-Feb-2023

SAFETY DATA SHEET

Version 1

1. IDENTIFICA		UBSTANCE/PREPA	RATION AND OF THE			RTA	KING
Product identifier				- ••••••• /			
Product Name		SODIUM HYDROX					
Other means of ide			IDE I LARES				
Product Code		10203					
Synonyms			stic Soda, Sodium Hydroxic	le Anbydro	us Sodium H	vdrov	vido
Synonyms		NaOH, Soda Lye,		ie, Annyuic		yuruz	due,
Recommended us		nd restrictions on use					
Recommended Us		Alkaline cleaner					
Uses advised agai	•		se on the label when applying	na this proc	luct		
Details of the supp				.ge p. ee			
Manufacturer Add							
Safe Foods Chemic	al Innovations						
1501 E. 8th Street							
North Little Rock, Al	R 72114						
Emergency telephone	one number						
Company Phone N	umber	501-758-8500					
Emergency Teleph	one	Chemtrec 1-800-424-930)				
		2. HAZARDS II	ENTIFICATION				
Classification							
OSHA Regulatory							
		by the 2012 OSHA Hazar	d Communication Standard		910.1200)		
Serious eye damage				Category 1			
Skin corrosion/irritat	ion				Sub-catego	ry A	
Acute toxicity - Oral			(Category 4			
Acute toxicity - Derr	nal			Category 4			
Label elements		Emorgono	v Overview				
DANGER		Emergenc	y Overview				
Hazard statements							
Causes severe skin		309					
Harmful if swallowe		age					
Harmful in contact v	-						
Physical state	Solid	Color	White		C	dor	Alkaline
Precautionary Stat							7 untainte
Do not eat, drink or							
Do not breathe dust							
		n thoroughly after handling	a				
		ng/eye protection/face pro					
Precautionary Stat							
Specific treatment (s							
Immediately call a F							
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							
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing							
before reuse. Call a poison center or doctor if you feel unwell							
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor							
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting							
Precautionary Stat	ements - Storage						

Store locked up

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Not applicable Other Information

Harmful to aquatic life with long lasting effects

Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically. Suitable extinguishing media Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam. Unsuitable extinguishing media Dry chemicals medical attention gas which can form explosive mixtures with air. Exothermic reaction will occur upon dilution with water. Hazardous combustion products Sensitivity to Static Discharge None. Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full produce corrosive and/or toxic fures. 6. ACCIDENTAL RELEASE MEASURES	3. (COMPOSITIO	N/INFORMATION ON INGREDI	ENTS			
Sodium carbonate 7647-14-5 0-2 Sodium carbonate 497-19-8 0-2 *The exact percentage (concentration) of composition has been withheld as a trade secret. 0-2 *Instaid measures 4. FIRST AID MEASURES Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove conta lenses, if present, after first 5 minutes, then continue rinsing eye. Seek immediate media attention/advice. Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothing and shoes before reuse. For severe bu immediate medical attention is required. Do not use solvents or thinners. Inhalation Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately. Most important symptoms and effects, both acute and delayed Symptoms See Section 11 for symptom information. Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically. Suitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire. Specific hazards arising from the chemical Produce toxic and/or corrosive substances on contact with water. Hazardous combustion products Produce toxic and/or corrosive substances on contact with water. Explosion data Sensitivity to Mechanical Impac	Chemical Name		CAS No.	Weight-%			
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Personal precautions, protective equipment and emergency precedures		6. ACCIDI	ENTAL RELEASE MEASURES				
Personal precautions, protective equipment and emergency procedures							
Personal precautions Use personal protection recommended in Section 8. Ensure adequate ventilation,	Personal precautions	Use persona	protection recommended in Section 8.	Ensure adequate ventilation,			
especially in confined areas. Avoid creating dust. Avoid breathing dust.		• •	•	oid breathing dust.			
For emergency responders Isolate area. Keep unnecessary personnel away.		Isolate area.	Keep unnecessary personnel away.				
Environmental precautions			· · · ·				
Environmental precautions Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Release should be reported if required to appropriate agencies. Prevent entry into waterways, sewers, basements or confined are See section 12 for additional ecological information.	Environmental precautions	surface wate appropriate a	rs with low buffering capacity. Release s gencies. Prevent entry into waterways,	should be reported if required to			
Methods and material for containment and cleaning up	Methods and material for contain						
Methods for containment Prevent further leakage or spillage if safe to do so.							
Methods for cleaning up Isolate spill or leak area immediately. Stay upwind. Do not touch or walk through spilled material. Collect spillage. Shovel dry material into suitable container. Remainder may b neutralized with a mild acid (vinegar) and rinsed to a sewer.							
7. HANDLING AND STORAGE							

Precautions for safe handling

SODIUM HYDROXIDE FLAKES

Advice on safe handling	only add caustic soda slov on soft metals, galvanized Section 8. Avoid contact v	Exothermic reaction will occur upon dilution with water. When making solutions or diluting, only add caustic soda slowly to surface of cold water while stirring. This product is not safe on soft metals, galvanized and painted surfaces. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing dust, vapors, or mist. Wash thoroughly after handling. Handle in accordance with good industrial bygiene and safety practice.					
Conditions for safe storage, inc							
Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in prop							
Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in pro labeled containers. Do not store in aluminum containers or use aluminum fittings of lines, as flammable hydrogen gas may be generated. Do not allow water to get int container. Keep separated from incompatible substances.							
Incompatible materials		ns. Amphoteric metals (aluminum,	copper. zinc).				
	=	PERSONAL PROTECTIO					
	EAFUSURE CONTROLS	FERSONAL FROTECTIO	N				
Control parameters Exposure Guidelines							
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH				
Sodium Hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³				
1310-73-2	5 5 5	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³				
Appropriate engineering control	ols						
Engineering Controls	Showers, eyewash statior	ns, ventilation system.					
Individual protection measures							
Eye/face protection	Splash proof chemical go						
Skin and body protection		e™ gloves or rubber gloves. Wea	suitable protective clothing				
okin and body protection	Rubber boots recommend	v	suitable protective clothing.				
Respiratory protection			NIOSH/MSHA approved				
Respiratory protection		If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be					
		contaminant concentrations. Res					
			pliatory protection must be				
General Hygiene Consideration		provided in accordance with current local regulations. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated					
General Hygiene Consideration		e reuse. Do not eat, drink or smoke					
	<u> </u>		e when using this product.				
		IEMICAL PROPERTIES					
Information on basic physical a	•						
Physical state	Solid	Oder	Allealing				
Appearance	Flakes	Odor Odor throubold	Alkaline				
Color	White	Odor threshold					
Property	Values						
pH	13	±1 @ 21°C (2% solu	ution)				
Melting point / freezing point	318 °C / 604 °F						
Boiling point / boiling range	1390 °C / 2534 °F						
Flash point	No information available						
Evaporation rate	No information available						
Flammability (solid, gas)	No information available	No information available					
Flammability Limit in Air							
Upper flammability limit:	No information available						
Lower flammability limit:	No information available	No information available					
Vapor pressure	< 18 mmHg @20°C						
Vapor density	1.38						
	No information available						
Specific Gravity							
Specific Gravity Water solubility	347g/100g @ 100°C						
Water solubility	347g/100g @ 100°C						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature	347g/100g @ 100°C No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature	347g/100g @ 100°C No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	347g/100g @ 100°C No information available No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature	347g/100g @ 100°C No information available No information available No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	347g/100g @ 100°C No information available No information available No information available No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	347g/100g @ 100°C No information available No information available No information available No information available No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	347g/100g @ 100°C No information available No information available No information available No information available No information available No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	347g/100g @ 100°C No information available No information available						
Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties VOC Content (%)	347g/100g @ 100°C No information available No information available 0.00% 2.13 g/cc	AND REACTIVITY					

No data available

Chemical stability

Stable under recommended storage conditions. Exothermic reaction will occur upon dilution with water.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

This product is not safe on soft metals, galvanized and painted surfaces. Keep from any possible contact with water. Exothermic reaction will occur upon dilution with water. Dust formation.

Incompatible materials

Acids. Oxidizers. Halogens. Amphoteric metals (aluminum, copper, zinc).

Hazardous Decomposition Products

Hazardous Decomposition products formed under fire conditions – Sodium oxides.

· · ·		CAL INFORMATION						
Information on likely routes of								
Product Information								
Inhalation	Corrosive. Inhalation of dust in high concentration may cause irritation of respiratory system. Vapors may be irritating to eyes, nose, throat, and lungs.							
Eye contact	Corrosive to the eyes and may cause severe damage including blindness. Symptoms include itching, burning, redness, and tearing of eyes.							
Skin Contact								
Ingestion		h burn mouth, throat, and stomach						
Chemical Name	Oral LD50 Dermal LD50 Inhalation LC50							
Sodium Hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-					
Sodium chloride 7647-14-5	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 g/m³ (Rat)1 h					
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat) > 2000 mg/kg (Rabbit) -							
Information on toxicological ef	fects							
Symptoms	No information available.							
Delayed and immediate effects	as well as chronic effects from	m short and long-term exposure	<u>e</u>					
Sensitization	No information available.							
Germ cell mutagenicity	No information available.							
Carcinogenicity	This product does not cor	ntain any carcinogens or potential	carcinogens as listed by OSHA					
	IARC or NTP.							
Reproductive toxicity	No information available.							
STOT - single exposure	No information available.							

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	331.00 mg/kg
Dermal LD50	1,366.30 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Fish	Crustacea	
Sodium Hydroxide 1310-73-2	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-	
Sodium chloride 7647-14-5	 4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static 12946: 96 h Lepomis macrochirus mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 	340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static 1000: 48 h Daphnia magna mg/L EC50	
Sodium carbonate	310 - 1220: 96 h Pimephales promelas mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50	
497-19-8	300: 96 h Lepomis macrochirus mg/L LC50 static		

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility							
Soluble in water.		Na informatio	n ovelleble				
Other adverse effects No information available 13. DISPOSAL CONSIDERATIONS							
		13. DIS	POSAL C	UNSIDER A	ATIONS		
Waste treatment method: Disposal of wastes Contaminated packaging	_	regulations. N Commission occurs in the Response Ce	Notify Local E for release g US and is re enter at (800)	mergency Pla reater than or portable unde 424-8802 (US		nd State ARA Sec 103, not 5 (USA)	e Emergency Response ction 304). If release tify the National
		14. TR	ANSPOR		ATION		
DOT							
UN/ID No.		1823					
Proper shipping nam	е	Sodium hydro	oxide, solid				
Hazard Class		8					
Packing Group		II					
Emergency Response Number	e Guide	154					
		15. RE0	GULATOR	Y INFORM	IATION		
International Inventori	es						
TSCA		Complies					
DSL/NDSL		Complies					
EINECS/ELINCS		Complies					
Legend:	Cubatan	and Constral Ast Cons		4			
TSCA - United States Toxic DSL/NDSL - Canadian Dor EINECS/ELINCS - Europea	nestic Su an Invente	bstances List/Non-D	omestic Subst	ances List	st of Notified Chemical	Substan	ces
US Federal Regulation SARA 313	<u>s</u>						
Section 313 of Title III of th chemicals which are subject SARA 311/312 Hazard Ca Acute health hazard	ct to the	reporting requiren <u>s</u>	nents of the /				
Chronic Health Hazard	d		res				
Fire hazard	u		No No				
Sudden release of pro			NO				
Reactive Hazard	essure		vo Yes				
CWA (Clean Water Act) This product contains the f and 40 CFR 122.42)	ollowing			ed pollutants p	oursuant to the Clea	n Water	Act (40 CFR 122.21
Chemical Name		A - Reportable Quantities	CWA - Toxi	c Pollutants	CWA - Priority Pollu	utants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2		1000 lb		-	-		X
<u>CERCLA</u> This material, as supplied, Environmental Response (sation and Liability	Act (CERCL			under th	e Comprehensive
Chemical Name		Hazardous Substa		CERC	LA/SARA RQ		ortable Quantity (RQ)
Sodium Hydroxide 1310-73-2		1000 lb		- RQ 1000 lb final RQ RQ 454 kg final RQ			
US State Regulations California Proposition 65 This product does not cont U.S. State Right-to-Know	ain any		emicals				
Chemical Name		New Jerse	еу	Massachusetts Pennsylvania			Pennsylvania
Sodium Hydroxide 1310-73-2		Х			Х		X
U.S. EPA Label Informati EPA Pesticide Registratio		per Not applicable	e				
		16.	OTHER IN	FORMATI	ON		

SODIUM HYDROXIDE FLAKES

NFPA	Health hazards	3	Flammability	0	Instability 1		Physical and Chemical Properties ₩ - Water reactive Corrosive, Alkaline
HMIS	Health hazards	3	Flammability	0	Physical hazards	2	Personal protection F (safety glasses, gloves, synthetic apron, dust respirator)
Prepared By			Technical Depa	rtment	t		o , y , i , i , ,
Issue Date			27-May-2021				
Revision Dat	e		23-Feb-2023				
Version			1				
Revision Not	e		Company name	e upda	te.		
Disclaimor				•			

<u>Disclaimer</u> The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet