

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Product name	Zinc 3 – Reagent A		
Product number	R-8019A	R-8019A	
Recommended use and restrictions	To be used in accordance with manufact manufact	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.	
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548		
CTION 2: Hazard(s) iden	tification		
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Eye damage/irritation	Category 1	
	Skin corrosion/irritation	Category 1A	
Environmental hazards	Not currently regulated by OSHA. For ac	dditional information, refer to section 12 of the SD	
Signal word	Danger		
Signal word Hazard statements	0	ere skin burns and serious eye damage.	
-	Danger May be corrosive to metals. Causes sev	ere skin burns and serious eye damage.	
Hazard statements	May be corrosive to metals. Causes sev Keep only in original container. Do not b	ere skin burns and serious eye damage. reathe dust or mists. Wash skin thoroughly after tive clothing/eye protection/face protection if conta	
Hazard statements Precautionary statements	May be corrosive to metals. Causes sev Keep only in original container. Do not b handling. Wear protective gloves/protect likely to occur. Absorb spillage to prevent material dama several minutes. Remove contact lenses Immediately call a physician or poison co induce vomiting. IF ON SKIN (OR HAIR) skin with water. Wash contaminated clot	reathe dust or mists. Wash skin thoroughly after tive clothing/eye protection/face protection if conta age. IF IN EYES: Rinse cautiously with water for s if present and easy to do. Continue rinsing. ontrol center. IF SWALLOWED: Rinse mouth. Do): Immediately take off all contaminated clothing. F thing before reuse. IF INHALED: Remove person	
Hazard statements Precautionary statements Prevention	May be corrosive to metals. Causes sev Keep only in original container. Do not b handling. Wear protective gloves/protect likely to occur. Absorb spillage to prevent material dama several minutes. Remove contact lenses Immediately call a physician or poison co induce vomiting. IF ON SKIN (OR HAIR) skin with water. Wash contaminated clot fresh air and keep comfortable for breath center.	reathe dust or mists. Wash skin thoroughly after tive clothing/eye protection/face protection if conta age. IF IN EYES: Rinse cautiously with water for s if present and easy to do. Continue rinsing. ontrol center. IF SWALLOWED: Rinse mouth. Do): Immediately take off all contaminated clothing. F thing before reuse. IF INHALED: Remove person f hing. Immediately call a physician or poison control th corrosive-resistant inner liner. Store locked up.	
Hazard statements Precautionary statements Prevention Response	May be corrosive to metals. Causes sev Keep only in original container. Do not b handling. Wear protective gloves/protect likely to occur. Absorb spillage to prevent material dama several minutes. Remove contact lenses Immediately call a physician or poison or induce vomiting. IF ON SKIN (OR HAIR) skin with water. Wash contaminated clot fresh air and keep comfortable for breath center. Store in corrosive-resistant container wit tightly capped. Store out of direct sunligh	reathe dust or mists. Wash skin thoroughly after tive clothing/eye protection/face protection if conta age. IF IN EYES: Rinse cautiously with water for s if present and easy to do. Continue rinsing. ontrol center. IF SWALLOWED: Rinse mouth. Do): Immediately take off all contaminated clothing. F thing before reuse. IF INHALED: Remove person f hing. Immediately call a physician or poison control th corrosive-resistant inner liner. Store locked up.	

SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Sodium hydroxide	Caustic soda	1310-73-2	1-5
Triethanolamine	Trolamine; 2,2', 2"- Nitrilotriethanol	102-71-6	1-5

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting measures

Extinguishing media Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals
Hazardous combustion products	Carbon oxides, nitrogen oxides, sodium oxides. Other irritating fumes and smoke.
Advice for firefighters	
Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe dust/fumes/gas/mists/vapors/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Dilute base with water and neutralize with dilute acid. If not recoverable, dilute with water or flush to holding area and neutralize. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and storage

Personal precautions, protective equipment, and emergency procedures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mists/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Store in corrosive-resistant container with corrosive-resistant inner liner. Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store away from incompatible materials (refer to section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³	
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m³	
US NIOSH: Pocket Guide to Chemical Hazard	S		
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³	
Sodium hydroxide (CAS 1310-73-2)	IDLH	10 mg/m ³	
US OSHA Table Z-1 Limits for Air Contaminar	nts (29 CFR 1910.1000)		
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m ³	

Biological limit values

ACGIH Biological Exposure Indices

No biological exposure limits noted for the ingredient(s).

Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

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Eye/face protection	Wear appropriate chemical safety goggles if contact is likely to occur.
Skin protection	Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
Body protection	Wear appropriate protective clothing if contact is likely to occur.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Clear and colorless
Odor	Odorless
Odor threshold	No data available
рН	13.32
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available

Flash point	No data available
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
CTION 10: Stability and react	tivity
Reactivity	May be corrosive to metals.
Chemical stability	Stable under recommended handling and storage conditions (refer to section 7 of the SDS).
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials	Strong acids, strong oxidizing agents. Organic halogens.
Hazardous decomposition	No hazardous decomposition products under normal conditions.
products CTION 11: Toxicological info Information on toxicological effect	S
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Specific target organ toxicity (single exposure)	No data available	
Specific target organ toxicity (repeated exposure)	No data available	
Aspiration hazard	No data available	
SECTION 12: Ecological information		
Ecotoxicity	This product is not classified as environmentally hazardous.	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Other adverse effects	Large or frequent spills can have a harmful or damaging effect on the environment.	

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT	
UN number	1824
UN Proper shipping name	Sodium hydroxide solution
Reportable Quantity	1000lbs, sodium hydroxide
Class (Subsidiary risk)	8
Label(s)	8
Packing group	III
Special provisions	B2, IB2, N34, T7, TP2
Packaging exceptions	154
Packaging, non-bulk	202
ΙΑΤΑ	
UN number	1824
UN Proper shipping name	Sodium hydroxide solution
Class (Subsidiary risk)	8
Packing group	III
Special provisions	A803
IMDG	
UN number	1824
UN Proper shipping name	Sodium hydroxide solution
Class (Subsidiary risk)	8
Packing group	III
Environmental hazards	
Marine pollutant	No
Special provisions	223
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

DOT hazard pictograms





SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40	CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Sodium hydroxide	1310-73-2	1000lbs
SARA 302 Extremely Hazardous Sul	bstance (40 CFR 3	55 Appendices A / B)
Not regulated		
SARA 304 Emergency Release Notif	fication	
Not regulated		
SARA 311/312 Hazardous Chemical		
Chemical name	CAS number	
Sodium hydroxide	1310-73-2	
Triethanolamine	102-71-6	
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemical Invento	ory	
All components are on the U.S. EPA	A TSCA Inventory lis	st.
TSCA Section 12(b) Export Notificat	tion (40 CFR 707, S	ubpt. D)
Not regulated		
Other federal regulations		
Clean Air Act (CAA) Section 112 Ha	zardous Air Polluta	ants (HAPs)
Not regulated		
Clean Air Act (CAA) Section 112(r) A	Accidental Release	Prevention (40 CFR 68.130)
Not regulated		
Clean Water Act, Toxic and Priority	Pollutants (40 CFR	401.15 and CFR 423, Appendix
Not regulated		
Safe Drinking Water Act (SDWA)		
Not regulated		
US state regulations		
California Safe Drinking Water and	Toxic Enforcement	Act of 1986 (California Propos
This product does not contain any c		•
reproductive harm.		

Massachusetts Right-to-Know Act

Chemical name	CAS number
Sodium hydroxide 1310-73-2	
New Jersey Worker and Community	Right-to-Know Act
Chemical name	CAS number
Sodium hydroxide	1310-73-2
Triethanolamine	102-71-6
Pennsylvania Worker and Commun	ity Right-to-Know Act
Chemical name	CAS number
Sodium hydroxide	1310-73-2
Triethanolamine	102-71-6
Rhode Island Right-to-Know Act	

CAS number	
1310-73-2	
102-71-6	

SECTION 16: Other information

NFPA Rating Health hazard	2
Fire hazard	0
Reactivity	1
Specific	N/A

Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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Last revisions

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