

SAFETY DATA SHEET

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

Product identifier		
Product name	Ammonia-Nitrogen 1 – Reagent	С
Product number	R-8038C	
Recommended use and restrictions	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) Identific	cation	
Physical hazards	Corrosive to metals	Category 1
Health hazards	Eye damage/irritation	Category 1
	Skin corrosion/irritation	Category 1B
Environmental hazards	Not currently regulated by OSHA. For ac	dditional information, refer to section 12 of the SDS.
Signal word	Danger	
Hazard statements	6	rere skin burns and serious eye damage.
Precautionary statements	-,	
Prevention	Do not breathe dust or mists. Wash skin	thoroughly after handling. Wear protective
Response	IF IN EYES: Rinse cautiously with water present and easy to do. Continue rinsing center. IF SWALLOWED: Rinse mouth. Immediately take off all contaminated clo clothing before reuse. IF INHALED: Ren	n/face protection. Keep only in original container. for several minutes. Remove contact lenses, if g. Immediately call a physician or poison control Do NOT induce vomiting. IF ON SKIN (OR HAIR): othing. Rinse skin with water. Wash contaminated nove person to fresh air and keep comfortable for or poison control center. Absorb spillage to prevent
Storage		tant container with corrosive-resistant inner liner. Ke ht between 36°F–85°F.
Disposal	Dispose of contents/container in accordation regulations.	ance with local/regional/national/international
Hazards not otherwise classified	Not applicable	

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	5-10
Other components below reportable levels	Not applicable	Not applicable	0.1-1

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 Unsuitable extinguishing media	Use extinguishing media appropriate for surrounding fire. Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the s Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals
Hazardous combustion products	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 mist or vapor. 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. 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 mist or vapor. 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

Keep tightly capped. Store out of direct sunlight between 36°F- 85°F. Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. 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
US NIOSH: Pocket Guide to Chemical Hazards	5	
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 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

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.
Personal protective equipment	
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, colorless or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	>12
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
Relative 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
SECTION 10: Stability and Read	ctivity
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	Metals, acids.
Hazardous decomposition products	No hazardous decomposition products under normal conditions
SECTION 11: Toxicological Info	prmation
Information on toxicological effect	ts
Likely routes of exposure are sl Most important symptoms/effects, acute and	kin/eye contact and ingestion. Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent scarring.
delayed	Direct contact with concentrated solutions may be corrosive and may cause severe damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
	Inhalation of mists can cause respiratory irritation. Symptoms may include coughing, choking, and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.
	May produce burns to lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding.
Acute toxicity	This product is not classified as an acute toxicity hazard.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Eval Not regulated	uation of Carcinogenicity
OSHA Specifically Regulated So Not regulated	ubstances (29 CFR 1910.1001-1096)
US National Toxicology Prograr Not regulated	n (NTP) Report on Carcinogens
Reproductive toxicity	No data available
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 Inform	ation
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	1000 lbs
Class (Subsidiary risk)	8
Label(s)	8
Packing group	II
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	II
Special provisions	A3, A803
IMDG	
UN number	1824
UN Proper shipping name	Sodium Hydroxide Solution
Class (Subsidiary risk)	8
Packing group	II
Environmental hazards	
Marine pollutant	No
Special provisions	None
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

IATA; IMDG hazard pictograms



	40 CFR 302 4)	
CERCLA Hazardous Substance (Chemical name	CAS number	Reportable Quantity
Sodium Hydroxide	1310-73-2	1000 lbs
SARA 302 Extremely Hazardous		
Not regulated		
SARA 304 Emergency Release N	lotification	
Not regulated		
SARA 311/312 Hazardous Chemi		
Chemical name	CAS number	
Sodium Hydroxide	1310-73-2	
Potassium Sodium Tartrate	6381-95-5	—
Citric Acid	<u> </u>	—
SARA 313 (TRI reporting)	5949-29-1	
Not regulated		
-		
SCA Section 8(b) Chemical Inve	-	
All components are on the U.S.	-	
FSCA Section 12(b) Export Notifi	ication (40 CFR 707, S	ubpt. D)
Not regulated		
ner federal regulations Clean Air Act (CAA) Section 112	Hazardous Air Polluta	ntc (HABc)
	nazardous Air Poliuta	nts (naps)
Not regulated		
Clean Air Act (CAA) Section 112	(r) Accidental Release	Prevention (40 CFR 68.130)
Not regulated		
Clean Water Act, Toxic and Prior	ity Pollutants (40 CFR	401.15 and CFR 423, Appendix A)
Clean Water Act, Toxic and Prior Not regulated	ity Pollutants (40 CFR	401.15 and CFR 423, Appendix A)
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Not regulated		401.15 and CFR 423, Appendix A)
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SECTION 16: Other Information		
NFPA Rating Health hazard	2	
Fire hazard	0	
Reactivity	0	
Specific	N/A	

Disclaimer

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