

SAFETY DATA SHEET

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

SECTION 1:	Identification	
Product identif	fier	

Product name	Sulfuric Acid .12N			
Product number	R-0009; R-0009-PL			
Recommended use and restrictions	To be used in accordance wi manufacturer.	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	7-8548		
SECTION 2: Hazard(s) id	dentification			
Physical hazards	Corrosive to metals	Category 1		
Health hazards	Eye damage/irritation	Category 1		
	Skin corrosion/irritation	Category 1B		
Environmental hazards	No data available			
Label elements Hazard pictograms	A CONTRACTOR			
Signal word	Danger			
Hazard statements	May be corrosive to metals. Causes severe skin burns and eye damage.			
Precautionary statements				

Keep only in original container. Do not breathe dusts or mists. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur.

Response	Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a physician or poison control center.
Storage	Store in corrosive-resistant container with a corrosive-resistant inner liner. Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. Hazards not otherwise classified No data available

Hazards not otherwise classified no data available

SECTION 3: Compo	osition/information on ingredients		
Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	>99
Sulfuric acid	Hydrogen sulfate	7664-93-9	<1
SECTION 4: First-ai	, ,		

SECTION 4: First-aid measures

If inhaled

Prevention

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. Chemical burns must be treated by a physician.

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. Call a physician or poison control center immediately.

If swallowed

Call a physician or poison control center immediately. 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.

Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

General information

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

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SECTION 5: Firefighting me	asures
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 substance or mixture	
Fire hazard	Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals
Hazardous combustion products	Sulfur oxides
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

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. Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for reuse. Dilute acid with water and neutralize with dilute base. If not recoverable, dilute with water or flush to holding area and neutralize. 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

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

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

SECTION 8: Exposure co	, ,	,		<i>,</i> .
Occupational exposure limits				
ACGIH Threshold Limit Values				
Components		Туре	Value	Form
Sulfuric acid (CAS 7664-93	-9)	TWA	0.2 mg/m ³	Thoracic function
NIOSH: Pocket Guide to Chem	ical Hazards			
Components		Туре	Value	Form
Sulfuric acid (CAS 7664-93	-9)	TWA	1 mg/m ³	Not applicable
OSHA Table Z-1 Limits for Air	Contaminants (29 CFF	R 1910.1000)		
Components		Туре	Value	Form
Sulfuric acid (CAS 7664-93	-9)	PEL	1 mg/m ³	Not applicable
Biological limit values	No biological exposure limits noted for the ingredient(s)			
Exposure controls Appropriate engineering controls	be matched to cond engineering controls limits have not been	litions. If applicable, us to maintain airborne established, maintai	use process enclosures, lo e levels below recommend	d be used. Ventilation rates shou ocal exhaust ventilation, or other ded exposure limits. If exposure ceptable level. Eyewash facilitie luct.
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 pr	rotective clothing.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA			

limits. Advice should be sought from respiratory protection suppliers.

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

d chemical properties	
Physical state	Liquid
Form	Liquid
Color	Clear, colorless
Odor	Odorless
Odor threshold	No data available
рН	1.3
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	212°F (100°C)
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	17 mm Hg
Relative vapor density	0.6
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 r	eactivity			
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 incom	patible materials. Do i	not use in areas without adequate ventilation.	
Incompatible materials	Metal compounds,	nitromethane, oxidizir	ng agents, sugars	
SECTION 11:				
Information on toxicological effects				
Inhalation	May cause irritation	to the respiratory sys	stem	
Skin contact	Causes severe skir	n burns		
Eye contact	Causes serious eye	Causes serious eye damage		
Ingestion	Causes digestive tra	act burns		
Most important symptoms/effects, acute and	Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent scarring.			
delayed	Direct contact with concentrated solutions may be corrosive to the eyes and may cause severe damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.			
	Inhalation of mists can cause severe 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.			
	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding			
Acute toxicity	This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.			
Components		Species	Test Results	
Sulfuric acid (CAS 7664-93-9)				
Acute				
Inhalation				
LC ₅₀		Rat	510 mg/m ³ , 2 hours	
Oral				
LD_{50}		Rat	2140 mg/kg	
Respiratory or skin sensitization	No data available			
Germ cell mutagenicity	No data available			
Carcinogenicity	No data available			
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 inf				

SECTION 12: Ecological information

This product is not classified as environmentally hazardous; however, this does not exclude the possibility that 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 numberUN3264UN proper shipping nameCorrosive liquid, acidic, inorganic, N.O.S. (Sulphuric acid)

Transport hazard class(es) Class Subsidiary risk Label(s) Packing group Special precautions for user Special provisions Packaging exceptions Packaging, non-bulk Packaging, bulk	8 Not listed 8 III Read safety instructions, SDS, and emergency procedures before handling. IB3, T7, TP1, TP28 154 203 241
ΙΑΤΑ	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, N.O.S. (Sulphuric acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	Not listed
Packing group	
Environmental hazards	Not listed
ERG code	8L
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed
IMDG	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, N.O.S. (Sulphuric acid)
Transport hazard class(es)	0
Class Subsidiary risk	8 Not listed
Subsidiary risk	Not listed
Packing group Environmental hazards	
Marine pollutant	Not listed
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	This substance/mixture is not intended to be transported in bulk.
the IBC Code	a
DOT	

IATA; IMDG

SECTION 15: Regulatory information

U.S. federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance (40 CFR 302.4) Sulfuric acid (CAS 7664-93-9)

SARA 302 Extremely Hazardous Substance Sulfuric acid (CAS 7664-93-9)

SARA 304 Emergency Release Notification Sulfuric acid (CAS 7664-93-9)

SARA 313 (TRI Reporting) Sulfuric acid (CAS 7664-93-9)

U.S. state regulations

Massachusetts Right-to-Know Act Sulfuric acid (CAS 7664-93-9)

New Jersey Worker and Community Right-to-Know Act Sulfuric acid (CAS 7664-93-9)

Pennsylvania Worker and Community Right-to-Know Act Sulfuric acid (CAS 7664-93-9)

Rhode Island Right-to-Know Act Sulfuric acid (CAS 7664-93-9)

SECTION 16: Other information

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

Disclaimer

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