

SAFETY DATA SHEET

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

CTION 3: Composition Mixture	n/information on ingredient	IS		
Hazards not otherwise classified	No data available			
Disposal	No data available			
Storage	Keep tightly capped. Store out c	of direct sunlight b	etween 36°F-85°F.	
Response	IF ON SKIN: Wash with plenty of advice/attention. Take off all con cautiously with water for several Continue rinsing. IF EYE IRRIT/	ntaminated clothir I minutes. Remov ATION PERSIST:	ng and wash it before reuse. IF e contact lenses if present and S: Get medical advice/attention	IN EYES: Rinse l easy to do.
Prevention	Wash skin thoroughly after hand protection if contact is likely to o	occur.		
Precautionary statements	Mach alin the remaining offers the second		ative allowed by a time of a three an	
Hazard statements	Causes skin irritation. Causes s	erious eye irritatio	on.	
Signal word	Warning			
Hazard pictograms				
Environmental hazards Label elements	No data available			
	Eye damage/irritation Skin corrosion/irritation	Category 2A Category 2		
Physical hazards Health hazards	No data available	Cotogon (2)		
CTION 2: Hazard(s) id				
	31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-85	548		
Manufacturer	Taylor Technologies, Inc.			
Recommended use and restrictions	To be used in accordance with r manufacturer.	manufacturer inst	ructions or under the direct guid	dance of the
Product number	R-0627S-50			
Product name	Sulfuric Acid N/50			
Product identifier				

	Chemical name	Common name and synonyms	CAS number	%
	Water	Dihydrogen oxide	7732-18-5	99
	Sulfuric acid	Hydrogen sulfate	7664-93-9	0.01–0.1
SE	ECTION 4: First-aid measure	S		

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

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. If symptoms persist or in all cases of concern, seek medical advice.

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 substance or mixture Fire hazard	Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
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 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

Precautions for safe handling

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 away from incompatible materials (refer to section 10 of the SDS).

ACGIH Threshold Limit Valu Components	ues	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)		TWA	0.2 mg/m ³	Thoracic fraction
NIOSH: Pocket Guide to Ch	emical Hazards	Tumo	Value	Farm
Components Sulfuric acid (CAS 7664-93-9)		Type TWA	Value 1 mg/m ³	Form Not applicable
OSHA Table Z-1 Limits for A			i ing/iii	
Components		Туре	Value	Form
Sulfuric acid (CAS 7664-93	-9)	PEL	1 mg/m ³	Not applicable
Biological limit values	No biological expos	ure limits noted for th	e ingredient(s)	
Appropriate engineering	Good general venti	lation (typically 10 air	changes per hour) should	be used. Ventilation rates sho
Appropriate engineering controls	be matched to cond engineering control limits have not beer	litions. If applicable, u s to maintain airborne n established, mainta	use process enclosures, lo e levels below recommend	ocal exhaust ventilation, or oth led exposure limits. If exposur ceptable level. Eyewash facilit
	be matched to cond engineering control limits have not beer	litions. If applicable, u s to maintain airborne n established, mainta	levels below recommend in airborne levels to an ac	ocal exhaust ventilation, or oth led exposure limits. If exposur ceptable level. Eyewash facilit
Personal protective	be matched to conc engineering control limits have not beer and emergency sho	ditions. If applicable, u s to maintain airborne n established, mainta ower must be availabl	levels below recommend in airborne levels to an ac	ocal exhaust ventilation, or oth ded exposure limits. If exposur ceptable level. Eyewash facilit luct.
Personal protective equipment	be matched to conc engineering control limits have not beer and emergency sho Wear appropriate c	ditions. If applicable, u s to maintain airborne n established, mainta ower must be availabl hemical safety goggle	use process enclosures, lo e levels below recommend in airborne levels to an ac e when handling this prod	ocal exhaust ventilation, or oth ded exposure limits. If exposur ceptable level. Eyewash facilit luct.
Personal protective equipment Eye/face protection	be matched to conc engineering control limits have not beer and emergency sho Wear appropriate c	ditions. If applicable, u s to maintain airborne n established, mainta ower must be availabl hemical safety goggle hemical-resistant glov	use process enclosures, lo e levels below recommend in airborne levels to an ac e when handling this prod es if contact is likely to occ	cur.

SECTION 9: Physical and chemical properties

Information on	basic physical

and chemical properties	
Physical state	Liquid
Form	Liquid
Color	Clear, colorless
Odor	Odorless
Odor threshold	No data available
рН	2
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
CTION 10: Stability and	reactivity
Reactivity	Hazardous reactions will not occur under normal conditions.
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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	Metal compounds, nitromethane, oxidizing agents, and sugars

SECTION 11: Toxicological information

Information on toxicological effects				
Inhalation	May cause irritation to	the respiratory syste	m	
Skin contact	May cause slight or mild transient irritation			
Eye contact	May cause serious irritation			
Ingestion	May cause irritation, nausea, vomiting, and diarrhea			
Most important symptoms/effects, acute and	Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching.			
delayed	Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.			
	Ingestion may cause g	astrointestinal irritatio	n, nausea, vomiting, and diarrhea.	
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	0.375 mg/L, 4 hours (mist)	
Oral				
LD ₅₀		Rat	2140 mg/kg	
Respiratory or skin sensitization	No data available			
Germ cell mutagenicity	No data available			
Carcinogenicity	Occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid itself is a carcinogen. IARC has concluded there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans (Group 1. ACGIH has designated strong inorganic acid mists containing sulfuric acid as A2 [suspected human carcinogen]). NTP has listed strong inorganic acid mists containing sulfuric acid as a known human carcinogen. These classifications are for inorganic acid mists containing sulfuric acid and do not apply to sulfuric acid to sulfuric acid solutions.			
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			
ECTION 12: Ecological inf	ormation			

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	Not regulated as a dangerous good	
ΙΑΤΑ	Not regulated as a dangerous good	
IMDG	Not regulated as a dangerous good	

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)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric acid (CAS 7664-93-9)

DEA Exempt Chemical Mixtures Code Number Sulfuric acid (CAS 7664-93-9)

Drug Enforcement Administration (DEA) List 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) Sulfuric acid (CAS 7664-93-9)

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) 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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate hazard	Yes
Delayed hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	Yes

U.S. state regulations

California Proposition 65 - CRT: Listed date/carcinogenic substance

This product is not an inorganic acid mist containing sulfuric acid; therefore, the Proposition 65 statement does not apply.

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)

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	0
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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