

SAFETY DATA SHEET

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

SECTION 1: Identification

Product identifier

Product name Sulfuric Acid .12N
Product number R-0009; R-0009-PL

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

SECTION 2: Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1C

Environmental hazards

Label elements

Hazard pictograms



Signal word Danger

Hazard statements May be corrosive to metals. Causes severe skin burns and serious eye damage.

Precautionary statements

Prevention Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection if contact is likely to occur.

Keep only in original container.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR):

Immediately take off 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. Absorb spillage to prevent

material damage.

Storage Store in corrosive-resistant container with corrosive-resistant inner liner. Keep tightly capped.

Store locked up. Store out of direct sunlight between 36°F–85°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

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	
Sulfuric acid	Sulphuric acid: Dihydrogen sulfate	7664-93-9	0.1–1	

SECTION 4: First-aid measures

If inhaled

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

SDS US

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 advice/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.

SECTION 5: Firefighting measures

Extinguishing media

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. Other irritating fumes and smoke.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

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 or mists. 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. 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 dust or mists. 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

Conditions for safe storage, including any incompatibilities

Store in corrosive-resistant container with corrosive-resistant inner liner. Keep tightly capped. Store locked up. 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
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m³ (thoracic particulate)

US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m³
Sulfuric acid (CAS 7664-93-9)	IDLH	15 mg/m ³

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s)

Exposure controls

Odor threshold

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.

No data available

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

Odor Odorless

-11

pΗ 1.3 **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

Vapor pressure

Vapor density

Solubility

Partition coefficient (n-octanol/water)

No data available No data available No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

SECTION 10: Stability and reactivity

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 Bases, chlorates, halides, hydrogen peroxide, metal compounds, nitrates, nitromethane,

organic materials, oxidizing agents, perchlorates, phosphorous

Hazardous decomposition

products

No hazardous decomposition products under normal conditions

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent scarring.

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. See below for product and individual

ingredient acute toxicity data.

Product Species Acute Toxicity Estimate (ATE)

Acid Demand Reagent (CAS Mixture)

Acute

Dermal

LD₅₀

Rat No data available

Inhalation

LC₅₀ Rat

Oral

LD₅₀ Rat

Species

>5 mg/L

>2000 mg/kg

Acute Toxicity Data

Sulfuric acid (CAS 7664-93-9)

Acute

Components

Dermal

LD₅₀ Rat

No data available

Inhalation

 LC_{50} Rat 0.375 mg/L (for aerosol mists)

Oral

 LD_{50} Rat 2140 mg/kg

Skin corrosion/irritation Causes severe skin burns

Serious eye damage/eye irritation Causes serious eye damage

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

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 degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo 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 2796

UN Proper shipping name Sulfuric acid solution

Reportable Quantity 1000 lbs

Class (Subsidiary risk) 8
Label(s) 8
Packing group III

Special provisions 386, A3, A7, B2, B15, IB2, N6, N34, T8, TP2

Packaging exceptions 154
Packaging, non-bulk 202

IATA

UN number 2796

UN Proper shipping name Sulphuric acid solution

Class (Subsidiary risk) 8
Packing group III
Special provisions None

IMDG

UN number 2796

UN Proper shipping name Sulphuric acid solution

Class (Subsidiary risk) 8
Packing group III

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



SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Sulfuric acid 7664-93-9 1000 lbs

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Chemical nameCAS numberSulfuric acid7664-93-9

SARA 304 Emergency Release Notification

Chemical nameCAS numberSulfuric acid7664-93-9

SARA 311/312 Hazardous Chemical

Chemical nameCAS numberSulfuric acid7664-93-9

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

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

Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

Massachusetts Right-to-Know Act

Chemical name CAS number

Sulfuric acid 7664-93-9

New Jersey Worker and Community Right-to-Know Act

Chemical nameCAS numberSulfuric acid7664-93-9

Pennsylvania Worker and Community Right-to-Know Act

Chemical name CAS number

Sulfuric acid 7664-93-9

Rhode Island Right-to-Know Act

Chemical name CAS number

Sulfuric acid 7664-93-9

SECTION 16: Other information

NFPA Rating

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

Disclaimer

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