

SAFETY DATA SHEET

Issue Date 03-Apr-2019 **Revision Date** 11-Jun-2025 **Version** 3.7 **Page** 1 / 18

1. IDENTIFICATION

Product identifier

Product Name COD TNTPlus™, LR (3-150 MG/L)

Other means of identification

Product Code(s) TNT821

Safety data sheet number M00486

UN/ID no UN1830

Recommended use of the chemical and restrictions on use

Recommended Use Determination of Chemical Oxygen Demand. Laboratory Use.

Uses advised against Consumer use.

Restrictions on use For Laboratory Use Only.

Details of the supplier of the safety data sheet

Manufacturer Address

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Aquatic Acute Toxicity	Category 1
Chronic aquatic toxicity	Category 1

Hazards not otherwise classified (HNOC)

Data insufficient for GHS classification but significant enough for mention suggests:

CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Inhalation of low concentrations of sulfuric acid may result in airway irritation such as cough and shortness of breath; high concentrations may result in acute effects such as cough.

Label elements

Signal word

Danger

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Hazard statements

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P363 - Wash contaminated clothing before reuse

P273 - Avoid release to the environment

P391 - Collect spillage

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

P270 - Do not eat, drink or smoke when using this product

Other Hazards Known

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Family Mixture.

Chemical nature Aqueous solution of inorganic acids and salts.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Sulfuric acid	7664-93-9	80 - 90%	-
Sulfuric acid, mercury(II) salt	7783-35-9	<1%	-
Sulfuric acid, disilver(1+) salt	10294-26-5	<1%	-
Chromic acid (H2CrO4)	7738-94-5	<0.1%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Get immediate medical advice/attention.

Skin contactGet immediate medical advice/attention. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Get immediate medical

advice/attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the The product cau

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

Hazardous combustion products This material will not burn. Sulfur oxides. May vaporize to form Mercury vapor.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

U.S. NoticeOnly persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

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Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive

material. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sulfuric acid	TWA: 0.2 mg/m ³ thoracic	TWA: 1 mg/m ³	IDLH: 15 mg/m ³
CAS#: 7664-93-9	particulate matter	(vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³
Sulfuric acid, mercury(II) salt	TWA: 0.025 mg/m ³ Hg	(vacated) Ceiling: 0.1 mg/m ³	IDLH: 10 mg/m ³ Hg
CAS#: 7783-35-9	Sk*		Ceiling: 0.1 mg/m ³ Hg
			TWA: 0.05 mg/m ³ except
			Organo alkyls Hg vapor
Sulfuric acid, disilver(1+) salt	TWA: 0.01 mg/m ³ Ag	TWA: 0.01 mg/m ³	IDLH: 10 mg/m³ Ag
CAS#: 10294-26-5		(vacated) TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³ Ag
Chromic acid (H2CrO4)	-	TWA: 5 μg/m³	TWA: 0.0002 mg/m ³ Cr

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CAS#: 7738-94-5	(vacated	l) Ceiling: 0.1 mg/m³
	Ceil	ling: 0.1 mg/m ³

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hand Protection Wear suitable gloves. Impervious gloves.

Eye/face protection Face protection shield.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

General Hygiene Considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the

workplace.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearanceTurbid solutionColorlight orangeOdorOdorlessOdor thresholdNot applicable

Property Values Remarks • Method

Molecular weight Not applicable

pH < 0.5 @ 20 °C

Melting point / freezing point \sim 4 °C / 39.2 °F

Initial boiling point and boiling range ~ 232 °C / 449.6 °F

Evaporation rateNo data available

Vapor pressure 1.8 mm Hg / 0.24 kPa at 25 °C / 77 °F

Relative vapor density 0.03

Specific gravity - VALUE 1 ?? mm

Partition coefficient Not applicable

Soil Organic Carbon-Water Partition

Coefficient

Not applicable

Autoignition temperature No data available

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Decomposition temperature 300 °C / 572 °F

Dynamic viscosity $\sim 25 \text{ cP (mPa s)}$ at 20 °C / 68 °F

Kinematic viscosity $\sim 14.045 \text{ cSt (mm}^2\text{/s)}$ at 20 °C / 68 °F

Solubility(ies)

Water solubility

Water solubility classification_	Water solubility_	Water Solubility Temperature_
Soluble	> 1000 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
None reported	No information available	No data available	No information available

Other information

Corrosive to metals

Classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate4.88 mm/yr/ 0.19 in/yrAluminum Corrosion Rate55.4 mm/yr/ 2.18 in/yr

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sulfuric acid	7664-93-9	No data available	-
Sulfuric acid, mercury(II) salt	7783-35-9	Not applicable	-
Sulfuric acid, disilver(1+) salt	10294-26-5	No data available	-
Chromic acid (H2CrO4)	7738-94-5	No data available	-

Explosive properties

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density No data available

10. STABILITY AND REACTIVITY

Reactivity

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Not applicable. Very reactive. Corrosive to metal.

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Oxidizing agent. Acids. Bases.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking,

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal.

Eye contact Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Toxic in contact with skin. Corrosive. Causes severe burns. Avoid contact with skin and

clothing.

Ingestion Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May

cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Acute toxicity

Harmful if swallowed Toxic in contact with skin

Mixture

Test data reported below.

Oral Exposure Route

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Endpoint type	Reported dose	Toxicological	Key literature references and sources for data
Rat	360 mg/kg	effects	Outside testing
LD ₅₀		Behavioral	s and s and g
		Salivation	
		Sedation	
		Vocalization	
		Chronic	
		Death	
		Eye	
		Ptosis	
		Gastrointestinal	
		Corrosion of the	
		stomach	
		Enteritis of the	
		intestines	
		Liver	
		Adhesion of the	
		liver to the	
		stomach	
		Lungs, Thorax,	
		or Respiration	
		Congestion of the	
		lungs	
		Respiratory	
		depression	
		Nasal discharge	
		Skin and	
		Appendages	
		Piloerection	

Ingredient Acute Toxicity Data
Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid, mercury(II) salt (<1%) CAS#: 7783-35-9	None reported	Estimated	None reported	None reported	No information available
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	Rat LD ₅₀	> 5000 mg/kg	None reported	None reported	No information available
Chromic acid (H2CrO4) (<0.1%) CAS#: 7738-94-5	Rat LD ₅₀	80 mg/kg	None reported	Lungs, Thorax, or Respiration Cyanosis Gastrointestinal Hypermotility Diarrhea Skin and Appendages Other changes	RTECS

Dermal Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid, mercury(II) salt (<1%) CAS#: 7783-35-9	None reported	Estimated	None reported	None reported	No information available

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Chromic acid	None reported	Estimated	None reported	None reported	No information available
(H2CrO4)				•	
(<0.1%)					
CAS#: 7738-94-5					

Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid, mercury(II) salt (<1%) CAS#: 7783-35-9	None reported	Estimated	None reported	None reported	No information available
Chromic acid (H2CrO4) (<0.1%) CAS#: 7738-94-5	None reported	Estimated	None reported	None reported	No information available

Inhalation (Vapor) Exposure Route

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	636.13 mg/kg
ATEmix (inhalation-dust/mist)	6.3740 mg/l
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Skin corrosion/irritation

Causes severe burns.

Mixture

No data available.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sulfuric acid (80 - 90%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to skin	HSDB
Sulfuric acid, mercury(II) salt (<1%) CAS#: 7783-35-9	Existing human experience	Human	None reported	None reported	Skin irritant	GESTIS
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA

Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

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Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sulfuric acid (80 - 90%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to eyes	HSDB
Sulfuric acid, mercury(II) salt (<1%) CAS#: 7783-35-9	Existing human experience	Human	None reported	None reported	Eye irritant	GESTIS
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	Standard Draize Test	Rabbit	180 mg	None reported	Corrosive to eyes	ECHA

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Sensitization Data

Test data reported below.

Skin Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and
				sources for data
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	in vivo Assay	Guinea pig	Not confirmed to be a skin sensitizer	ECHA

STOT - single exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid	Human	0.144 mg/L	5 minutes	Lungs, Thorax, or	RTECS
(80 - 90%)	TD_Lo			Respiration	
CAS#: 7664-93-9				Dyspnea	

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture

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No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	Rat LD	> 2000 mg/kg	14 days	No toxicological effects observed	ECHA

Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid	Human	0.003 mg/L	168 days	Musculoskeletal	RTECS
(80 - 90%)	TCLo		Changes in teeth and supporting		
CAS#: 7664-93-9				structures	

Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sulfuric acid	7664-93-9	A2	Group 1	Known	X
Sulfuric acid, mercury(II) salt	7783-35-9	-	Group 3	-	-
Sulfuric acid, disilver(1+) salt	10294-26-5	-	-	-	-
Chromic acid (H2CrO4)	7738-94-5	-	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans
	Group 3 - Not Classifiable as to
	Carcinogenicity in Humans
NTP (National Toxicology Program)	Known - Known Carcinogen
OSHA	X - Present

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro Data

No data available.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Sulfuric acid	Cytogenetic	Hamster ovary	4 mmol/L	None reported	Positive test result for	No information

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(80 - 90%)	analysis				mutagenicity	available
CAS#: 7664-93-9						
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	Mutation in mammalian somatic cells	Human lymphocyte	.08 mg/L	3 hours	Negative	ECHA

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Reproductive Toxicity Data

Test data reported below.

Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid	Rabbit	0.02 mg/L	7 hours	Specific Developmental	No information available
(80 - 90%)	TCLo			Abnormalities	
CAS#: 7664-93-9				Musculoskeletal system	

Aspiration hazard

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

Mixture

Aquatic Acute Toxicity

No data available.

Aquatic Chronic Toxicity

No data available.

Substance

Aquatic Acute Toxicity

Test data reported below.

Fish

Chemical	name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric a disilver(1+ (<1%) CAS#: 1029	-) salt)	96 hours	Pimephales promelas	LC50	0.0012 mg/L	ECHA

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ſ	Chromic acid	96 hours	None reported	LC ₅₀	0.0031 mg/L	CEPA
	(H2CrO4)					
	(<0.1%)					
	CAS#: 7738-94-5					

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric acid, disilver(1+) salt (<1%) CAS#: 10294-26-5	48 Hours	Daphina magna	LC ₅₀	0.00022 mg/L	ECHA

Aquatic Chronic Toxicity

Test data reported below.

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric acid, disilver(1+) salt (<1%)	7 days	Ceriodaphnia dubia	EC ₁₀	0.00248 mg/L	ЕРА
CAS#: 10294-26-5					

Persistence and degradability

Mixture

No data available.

Mixture

No data available.

Partition coefficient Not applicable

Mobility

products

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number D002, D007, D009, D011

Special instructions for disposal Dispose of all mercury contaminated material at an E.P.A. hazardous waste facility. Dispose

of material in an E.P.A. approved hazardous waste facility.

14. TRANSPORT INFORMATION

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DOT

UN/ID no UN1830 Proper shipping name Sulfuric acid

Transport hazard class(es) 8
Packing Group II
Emergency Response Guide 137

Number

TDG

UN/ID no UN1830 Proper shipping name Sulfuric acid

Transport hazard class(es) 8
Packing Group | |

IATA

UN number or ID number UN1830 Sulphuric acid

Transport hazard class(es) 8
Packing group | | |
ERG Code | 8L

IMDG

UN number or ID number UN1830 Sulphuric acid

Transport hazard class(es) 8
Packing Group | |

EmS-No F-A, S-B

Note: No special precautions necessary.

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit, the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories

For Inventory status, "complies" means, listed on the inventory, exempted or otherwise complies.

TSCA TSCA DSL/NDSL DSL/NDSL

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS EINECS/ELINCS

ENCS ENCS
IECSC IECSC
KECI KECI
PICCS PICCS
TCSI TCSI
AICS
NZIOC NZIOC

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

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IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Sulfuric acid (CAS #: 7664-93-9)	1.0
Sulfuric acid, disilver(1+) salt (CAS #: 10294-26-5)	1.0
Chromic acid (H2CrO4) (CAS #: 7738-94-5)	0.1

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9	1000 lb	-	-	X
Sulfuric acid, mercury(II) salt 7783-35-9	10 lb	Х	-	Х
Sulfuric acid, disilver(1+) salt 10294-26-5	-	Х	-	-
Chromic acid (H2CrO4) 7738-94-5	10 lb	X	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9			RQ 454 kg final RQ
Sulfuric acid, mercury(II) salt	10 lb	-	RQ 10 lb final RQ
7783-35-9			RQ 4.54 kg final RQ
Chromic acid (H2CrO4)	10 lb	-	RQ 10 lb final RQ
7738-94-5			RQ 4.54 kg final RQ

U.S. - DEA (Drug Enforcement Administration) List I & List II

-	Chemical name	U.S DEA (Drug Enforcement	U.S DEA (Drug Enforcement
1		Administration) - List I or Precursor	Administration) - List II or Essential
-		Chemicals	Chemicals
I	Sulfuric acid	Not Listed	50 gallon Export Volume (exports,

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(80 - 90%)	transshipments and international
CAS#: 7664-93-9	transactions to designated countries
	given in 1310.08(b))

Chemical name	TSCA 12(b)
Chromic acid (H2CrO4)	Section 6
(<0.1%)	
CAS#: 7738-94-5	

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Sulfuric acid (CAS #: 7664-93-9)	Carcinogen
Sulfuric acid, mercury(II) salt (CAS #: 7783-35-9)	Developmental
Chromic acid (H2CrO4) (CAS #: 7738-94-5)	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive

WARNING: This product can expose you to chemicals including Sulfuric acid, Chromic acid (H2CrO4), Sulfuric acid, mercury(II) salt, which are known to the State of California to cause cancer or birth defects or reproductive harm. For more information, go to http://www.P65Warnings.ca.gov

IMERC: Contains Mercury Dispose of in accordance with local, state and federal regulations or laws.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sulfuric acid	X	X	X
7664-93-9			
Sulfuric acid, mercury(II) salt	X	X	X
7783-35-9			
Sulfuric acid, disilver(1+) salt	X	-	X
10294-26-5			
Chromic acid (H2CrO4)	X	X	X
7738-94-5			

U.S. EPA Label Information

Chemical name	FIFRA	FDA	
Sulfuric acid	180.0910	21 CFR 184.1095	

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

This product contains mercury and may be subject to reporting and recordkeeping requirements

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Additional information

Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable	Global Automotive Declarable	
	Substance List Classifications	Substance List Thersholds	
Sulfuric acid, mercury(II) salt	Declarable Substance (LR)	0.0005 %	
7783-35-9	Prohibited Substance (LR)	0.1 %	
Chromic acid (H2CrO4)	Declarable Substance (LR)	0.1 %	
7738-94-5	Prohibited Substance (LR)	3 mg/kg	

NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection - X - I

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists) **ATSDR** ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) **CCRIS**

CDC (Center for Disease Control) CDC

CEPA (Canadian Environmental Protection Agency) **CEPA**

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency) EEA (European Environment Agency) EEA **Environmental Protection Agency FPA**

ERMA (New Zealands Environmental Risk Management Authority) **ERMA**

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA (Food & Drug Administration) **FDA**

GESTIS (Information System on Hazardous Substances of the German Social Accident **GESTIS**

Insurance)

HSDB HSDB (Hazardous Substances Data Bank)

INERIS INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) **IPCS INCHEM** IUCLID (The International Uniform Chemical Information Database) **IUCLID** Japan National Institute of Technology and Evaluation (NITE) NITE

NIH (National Institutes of Health) NIH

NIOSH NIOSH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) LOLI

no data NDF

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Immediately Dangerous to Life or Health NIOSH IDLH

Occupational Safety and Health Administration of the US Department of Labor **OSHA**

PEEN (Pan European Ecological Network) PEEN

RTECS (Registry of Toxic Effects of Chemical Substances) **RTECS** SIDS (Screening Information Dataset) for High Volume Chemicals SIDS

The Finnish Environment Institute (SYKE) SYKE USDA (United States Department of Agriculture) **USDA** USDC USDC (United States Department of Commerce)

WHO WHO (World Health Organization)

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA STEL STEL (Short Term Exposure Limit) TWA (time-weighted average)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

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X Listed

Vacated

These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization ** Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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Revision Note SDS sections updated

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Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet

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