Ortho Clinical Diagnostics

SAFETY DATA SHEET

Issuing Date 21-May-2019

Revision Date 21-May-2019

Revision Number 0

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GHS product identifier

Product Name

4N Sulfuric Acid Solution

Other means of identification

Product Code(s)

OCDUS933040

UN-Number

UN2796

Synonyms

None

Recommended use of the chemical and restrictions on use

Recommended Use

Stop solution for Microelisa assays

Uses advised against

No information available

Supplier's details

Supplier Address

Ortho-Clinical Diagnostics, Inc. 1001 US Highway 202 Raritan, NJ 08869

Customer Service Telephone

US/Mexico -

English: 1 (800) 828-6316 Spanish: 1 (800) 828-6316

Canada -

English: 1 (800) 616-9000 French: 1 (800) 211-4911

Emergency telephone number

English: 1 (800) 421-3311 Spanish: 1 (800) 421-3311 French: 1 (800) 421-3311

Transportation Emergency Telephone

US/Canada: 1 (800) 424-9300

International and Maritime: +1 (703) 527-3887

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Classification	
Acute Inhalation Toxicity - Vapors	Catagoni 2

Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Emergency Overview

Signal Word

Danger

Hazard Statements

- Toxic if inhaled
- Causes severe skin burns and eye damage



Appearance Clear, Colorless.

Physical State Liquid.

Odor Odorless.

Precautionary Statements

Prevention

- · Use only outdoors or in a well-ventilated area
- · Do not breathe dust/fume/gas/mist/vapors/spray.
- · Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection

General Advice

· Immediately call a POISON CENTER or doctor/physician.

Eyes

- ÎF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- · Wash contaminated clothing before reuse.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- · Call a POISON CENTER or doctor/physician.

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

- Store in a well-ventilated place. Keep container tightly closed.
- · Store locked up.

Disposal

· Dispose of contents/container to an approved waste disposal plant.

Physical and Health Hazards Not Otherwise Classified

Not applicable.

Other information

Corrosive by inhalation. Harmful if swallowed.

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

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sulfuric acid	7664-93-9	17.57	-	-

Description of necessary first-aid measures

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician or Poison Control Center

immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Call a physician immediately.

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

physician or Poison Control Center immediately. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration.

Ingestion If swallowed: Call a physician or Poison Control Center immediately. If victim is conscious,

rinse mouth and give 4-8 ounces of water or milk to dilute. Do NOT induce vomiting. Do not

leave victim unattended. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Corrosive

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

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Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the

<u>Chemical</u>

Contact with metals may evolve flammable hydrogen gas. The product causes burns of eyes, skin and mucous membranes. May ignite combustibles (wood paper, oil, clothing,

etc.). May re-ignite after fire is extinguished.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental Precautions

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Pick up and transfer to properly labeled containers.

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Precautions for safe handling

Handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place, Store according to label instructions.

Incompatible Products

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Contact with metals (aluminum, zinc, tin) may release hydrogen gas.

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid	TWA: 0.2 mg/m³ thoracic	TWA: 1 mg/m ³	IDLH: 15 mg/m ³
7664-93-9	particulate matter	(vacated) TWA: 1 mg/m³	TWA: 1 mg/m ³

Chemical Name	Alberta	British Columbia	Ontario	Quebec
Sulfuric acid	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 1 mg/m³
	STEL: 3 mg/m ³			STEL: 3 mg/m ³

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles. Face-shield.

Skin and Body Protection Respiratory Protection

Long sleeved clothing. Chemical resistant apron. Impervious gloves. Boots. Use only with adequate ventilation If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

None known

regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

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Information on basic physical and chemical properties

Physical State

Liquid.

Appearance

Clear, Colorless.

No information available.

Odor **Property**

Flash Point

Evaporation rate

pΗ

Odorless.

Odor Threshold

Values Remarks/ - Method None known 0.3 No data available None known 99.9 °C None known Not determined. None known < 1 None known No data available None known

Flammability (solid, gas) Flammability Limits in Air

Boiling Point/Boiling Range

Melting Point/Range

upper flammability limit No data available lower flammability limit No data available Vapor Pressure 1mm Hg at 146C Not applicable

Vapor Density Specific Gravity 1.12 **Water Solubility** No data available Solubility in other solvents No data available Partition coefficient: n-octanol/waterNo data available **Autoignition Temperature** No data available

Decomposition Temperature No data available No data available Viscosity Flammable Properties

No data available **Explosive Properties Oxidizing Properties**

Other information

VOC Content (%)

Not flammable

No data available

No data available

Reactivity

Water reactive.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Avoid acids, alkalis, high temperatures.

Incompatible materials

Incompatible with strong acids and bases Incompatible with oxidizing agents. Contact with

metals (aluminum, zinc, tin) may release hydrogen gas.

Hazardous decomposition products May emit toxic fumes under fire conditions.

Information on likely routes of exposure

Product Information

Inhalation

Harmful by inhalation. Contact with moist mucous membranes of the respiratory system can

cause caustic condition resulting in burns.

Eve Contact Skin Contact Ingestion

Causes serious eye damage. Causes severe skin burns.

Harmful if swallowed

			LD50 Dermal	Inhalation	
	Sulfuric acid	= 2140 mg/kg (Rat)	-	85 - 103 mg/m³(Rat)1 h	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Corrosive. Skin and eye contact may include pain, impaired vision, severe local redness

and tissue damage.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization

No information available

Mutagenic Effects

No information available

Carcinogenicity

Contains no ingredients above reportable quantities listed as a carcinogen

Reproductive Toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Target Organ Effects

Eyes, Respiratory system. Skin, Teeth.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product

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

Acute Toxicity

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

LD50 Oral

12180 mg/kg; Acute toxicity estimate

Inhalation

1.4 mg/L; Acute toxicity estimate

dust/mist Vapor

4 mg/L; Acute toxicity estimate

Ecotoxicity

The environmental impact of this product has not been fully investigated.

					_
Chemical Name	Toxicity to Algae	Toxicity to F	ish Toxicit	ty to Daphnia Magna (Water	

		Microorganisms	Flea)
Sulfuric acid	LC50 96 h: > 500 mg/L static		
7664-93-9	(Brachydanio rerio)	•	

Persistence and Degradability

No information available

Bioaccumulation

No information available

Other Adverse Effects No information available.

Waste Disposal Methods

Dispose of in accordance with local regulations.

Contaminated Packaging

Do not re-use empty containers.

DOT

UN-Number

UN2796

Proper shipping name **Hazard Class**

Sulphuric acid

Packing Group Description

UN2796, Sulphuric acid, 8, II

Emergency Response Guide

Number

TDG

UN-Number

UN2796

Proper Shipping Name

Sulphuric acid

Hazard Class

8

Packing Group Description

UN2796, Sulphuric acid, 8, II

MEX

UN-Number

UN2796

Proper Shipping Name

Sulphuric acid

Hazard Class

8 Ш

Packing Group Description

UN2796, Sulphuric acid, 8, II

IATA

UN-Number

UN2796

Proper Shipping Name

Sulphuric acid

Hazard Class

Packing Group

Ш

ERG Code Description

UN2796, Sulphuric acid, 8, II

IMDG/IMO

UN-Number

UN2796

Proper Shipping Name

Sulphuric acid

Hazard Class

8

Packing Group

II

EmS No.

F-A, S-B

Description

UN2796, Sulphuric acid, 8, II

International Regulations

Ozone depleting substances **Persistent Organic Pollutants** Not applicable Not applicable

Hazardous Waste

enemiee Anne Case (Convention) (Fazardous: Wastes) Sulfuric acid Y34

The Rotterdam Convention (Prior

Not applicable

Informed Consent)

International Convention for the

Not applicable

Prevention of Pollution from Ships

(MARPOL)

U.S. Federal Regulations

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	CAS-No	Weight %	SARA 313 - Threshold Values %
1	Sulfuric acid	7664-93-9	17.57	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21

and 40 CFR 122 42).

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Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous			
	Quantities			Substances			
Sulfuric acid	1000 lb			Х			

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sulfuric acid	Х	X	Х	X	Х

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NFPA	Health Hazard 3	Flammability 0	Instability 2	Physical and Chemical Hazards W
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 2	Personal Protection X

Prepared By

Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date Revision Date Revision Note 21-May-2019 21-May-2019

Initial Release.

General Disclalmer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

Ortho PRODUCT Category Ortho SUB-CATEGORY Class

Transfusion Medicine Other Reagent

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