

SAFETY DATA SHEET

Issue Date 17-05-2016

Revision Date 20-Jan-2017

Version 4

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1. IDENTIFICATION

Product identifier

Product Name

Acid Digestion Vials for Low Range TOC

Other means of identification

Product Code(s)

2760300

Safety data sheet number

M01741

UN/ID no

UN3264

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use

Determination of chromium.

Uses advised against

None.

Restrictions on use

None.

Details of the supplier of the safety data sheet

Manufacturer Address

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

Emergency telephone number

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

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
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word - Danger

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Hazard statements

H290 - May be corrosive to metals H318 - Causes serious eye damage

Precautionary statements

P280 - Wear eye protection/ face protection
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

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

P406 - Store in corrosive resistant aluminum container with a resistant inliner

Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>

Not applicable

Mixture

Synonyms

Chemical Family

Inorganic Acid.

Percent ranges are used where confidential product information is applicable.

Chemical Name		Percent Range	HMRIC#
Sulfuric acid	7664-93-9	7 - 13%	-

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4. FIRST AID MEASURES

Description of first aid measures

General advice

IF IN EYES: Flush eyes for at least 15 minutes.

Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician immediately.

Skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

ingestion

IF SWALLOWED: Rinse Mouth, If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms

See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Do NOT use water. Alcohol foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media Do NOT use water.

Flammable properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products

This material will not burn.

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.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice Only 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.

Only persons properly qualified to respond to an emergency involving hazardous **EC Notice**

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

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WHMIS Notice

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning up Take necessary precautions in observance of pertinent physical hazards. Neutralize spill if

necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in

accordance with local, state and federal regulations or laws.

Emergency Response Guide Number

154

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Absorb spillage to prevent material damage.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers. Keep/store only in original container.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	IDLH: 15 mg/m ³
7 - 13%	_	(vacated) TWA: 1 mg/m³	TWA: 1 mg/m ³

Chemical Name		British Golumbia OEL		New Brunswick OEL	New Foundland & Labrador OEL
Sulfuric acid	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³
7 - 13%	STEL: 3 mg/m ³			STEL: 3 mg/m ³	

Chemical Name Northwest Nova Scotia OEL Nunavut C	EL Ontario TWA: Prince Edward
Territories OEL	Island OEL

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Sulfuric acid	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³
7 - 13%	STEL: 0.6 mg/m ³		STEL: 0.6 mg/m ³		

Chemical Name	Quebec OEL	Saskatchewan OEL	Yukon OEL
Sulfuric acid	TWA: 1 mg/m ³	TWA; 0.2 mg/m ³	STEL: 1 mg/m ³
7 - 13%	STEL: 3 mg/m ³	STEL: 0.6 mg/m ³	TWA: 1 mg/m ³

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Legend

See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear tight sealing safety goggles and/or face protection shield. Avoid contact with eyes.

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Liquid

Gas Under Pressure

Not classified according to GHS criteria

Appearance

aqueous solution clear

Color

colorless

Odor

None

Odor threshold

No data available

Property

Values

Molecular weight

No data available

pН

< 1

Melting point/freezing point

~ 0 °C / 32 °F

Estimation based on theoretical

Remarks • Method

calculation

Boiling point / boiling range

~ 100 °C / 212 °F

Estimation based on theoretical

calculation

Evaporation rate

1 (water = 1) Estimation based on theoretical

calculation

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Vapor pressure

24.002 mm Hg / 3.2 kPa at 25 °C / 77 °F

Estimation based on theoretical

calculation

Vapor density (air = 1)

0.03 (air = 1)

Specific gravity (water = 1 / air = 1)

1.1

Estimation based on theoretical

calculation

Partition Coefficient (n-octanol/water)

Not applicable

Soil Organic Carbon-Water Partition

Not applicable

Coefficient

Autoignition temperature

No data available

Decomposition temperature

No data available

Dynamic viscosity

~ 1 cP (mPa s) at 20 °C / 68 °F

Kinematic viscosity

~ 0.909 cSt (mm2/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	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

Other Information

Metal Corrosivity

Classified as corrosive to metal according to GHS criteria

GHS Metal Corrosivity Classification

Category 1, H290

Steel Corrosion Rate

No data available

Aluminum Corrosion Rate

No data available

Bulk density

Not applicable

Explosive properties

Not classified according to GHS criteria.

Explosion data

During a fire, corrosive and toxic gases may be generated by

thermal decomposition.

Upper explosion limit

No data available

Lower explosion limit

No data available

Flammable properties

During a fire, irritating and highly toxic gases may be generated

by thermal decomposition.

Flammability Limit in Air

Upper flammability limit:

No data available

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Lower flammability limit:

No data available

Flash point

No data available

Method

No information available

Oxidizing properties

Not classified according to GHS criteria.

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

10. STABILITY AND REACTIVITY

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

Chemical stability

Stable under recommended storage conditions.

Special dangers of the product

None reported

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

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

Explosive properties

Not classified according to GHS criteria. During a fire, corrosive and toxic gases may be generated by thermal decomposition.

Upper explosion limit

No data available

Lower explosion limit

No data available

Autoignition temperature

No data available

Sensitivity to Static Discharge

None reported

Sensitivity to Mechanical Impact

None reported

11. TOXICOLOGICAL INFORMATION

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NIOSH (RTECS) Number

None reported

Information on Likely Routes of Exposure

Product Information	Corrosive to eyes.
Inhalation	No known effect based on information supplied.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Aggravated Medical Conditions	Eye disorders.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	See ingredients information below.

Chemical Name	Toxicokinetics, metabolism and distribution
Sulfuric acid	The corrosivity of sulfuric acid makes it difficult to assess its effects on metabolism. Its corrosivity is also the
(7 - 13%)	main contributor to acute deaths, therefore it is not classified for acute toxicity.
CAS#: 7664-93-9	l '

Product Acute Toxicity Data

Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Acute Toxicity Data

Oral	Evi	nneura	Route	
Olai		oosui e	Roule	

If available, see data below

Chemical Name		Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
		type	dose	time		sources for data
	Sulfuric acid	Rat	2140 mg/kg	None	None reported	IUCLID (The International
	(7 - 13%)	3%) LD50 report		reported	•	Uniform Chemical Information
	CAS#: 7664-93-9					Database)

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Ex	cposure Route	•		if available, see data below	
Chemical Name Endpoint type Reported dose Sulfuric acid (7 - 13%) Rat LC50 0.510 mg/L CAS#: 7664-93-9 LC50 CAS#		Exposure time	Toxicological effects	Key literature references and sources for data	
		0.510 mg/L	None reported	None reported	LOLI
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid (7 - 13%) CAS#: 7664-93-9	Human TD⊾	0.144 mg/L	5 minutes	Lungs, Thorax, or Respiration Dyspnea	RTECS (Registry of Toxic Effects of Chemical Substances)

Inhalation (Gas) Exposure Route

No data available

Product Skin Corrosion/Irritation Data

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Test data reported below.

Test method	Species	Reported dose	Exposure	Results	Key literature references and
Organization for	Rabbit	0.5 mL	time	Not corrosive	sources for data
Economic			4 hours	or irritating to	Internal Data
Co-operation and				skin	Outside testing
Development					
(OECD) - Test 404:					
Acute Dermal					
Corrosion/Irritation					

Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sulfuric acid (7 - 13%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to skin	HSDB (Hazardous Substances Data Bank)

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sulfuric acid (7 - 13%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to eyes	HSDB (Hazardous Substances Data Bank)

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Chronic Toxicity Information

Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

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Ingredient Repeat Dose Toxicity Data

Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

	If available, see data below		
3	Toxicological effects	Key	literature re
			sources f

Chemical Name	me Endpoint Reported type dose		Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid (7 - 13%)	Human TCLo	.003 mg/L	168 days	Musculoskeletal Changes in teeth and	RTECS (Registry of Toxic Effects of Chemical
CAS#: 7664-93-9				supporting structures	Substances)

Inhalation (Gas) Exposure Route

No data available

	Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
ſ	Sulfuric acid	7664-93-9	A2	Group 1	Known	Χ

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)	Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of	X - Present
Labor)	

Product Carcinogenicity Data

No data available

Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Carcinogenicity Data

Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Product Germ Cell Mutagenicity invitro Data

No data available.

Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical Name	Test	Cell Strain	Reported	Exposure	Results	Key literature
Chemical Name	l lear	Censuam	Reported	Exhosine	L/canira	Let illelatine
-		i	dose	i time		references and

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						sources for data
Sulfuric acid	Cytogenetic	Hamster ovary	4 mmol/L	None	Positive test result for	OECD
(7 - 13%)	analysis	_		reported	mutagenicity	(Organization for
CAS#: 7664-93-9						Economic
						Co-operation and
						Development)

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Reproductive Toxicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route If available, see data below

Initialation (vapor) Exposure Route					it a tallable, eee data belett	
	Chemical Name Endpoint Reported		Exposure	Toxicological effects	Key literature references and	
		type	dose	time		sources for data
	Sulfuric acid	Sulfuric acid Rabbit		7 hours	Specific Developmental	OECD (Organization for
	(7 - 13 %)	TC⊾			Abnormalities	Economic Co-operation and
	CAS#: 7664-93-9			!	Musculoskeletal system	Development)

Inhalation (Gas) Exposure Route

No data available

Ecotoxicity

Based on the classification principles, not classified as hazardous to the environment.

Product Ecological Data

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Aquatic toxicity

Fish

No data available

Crustacea

No data available

Algae

No data available

Terrestrial toxicity

Soil

No data available

Vertebrates

No data available

Invertebrates

No data available

Ingredient Ecological Data

Aquatic toxicity

Fish

If available, see ingredient data below

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric acid (7 - 13%) CAS#: 7664-93-9	96 hours	Lepomis macrochirus	LC50	> 16 mg/L	IUCLID (The International Uniform Chemical Information Database)

<u>Crustacea</u> If a			ivailable, see ingredient data below			
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data	
Sulfuric acid	48 hours	Crangon crangon	EC50	> 70 mg/L	IUCLID (The International	
(7 - 13%)		_		_	Uniform Chemical Information	
CAS#: 7664-93-9					Database)	

Algae

No data available

Terrestrial toxicity

Soil

No data available

Vertebrates

No data available

Invertebrates

No data available

Other Information

Persistence and degradability

None known.

Product Biodegradability Data

No data available.

Ingredient Biodegradability Data

No data available

Bioaccumulation

None known.

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Product Bioaccumulation Data

No data available.

Ingredient Bioaccumulation Data

No data available

Additional information

Product Information

Partition Coefficient (n-octanol/water)

Not applicable

Ingredient Information

Mobility

Mobility in soil: High mobility. If available, see ingredient data below.

Product Information

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Ingredient Information

No data available

Additional information

Water solubility

Product Information

Water solubility classification	<u>Water solubility</u>	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / <u>77</u> °F

Ingredient Information

Chemical Name	Water solubility classification	Water solubility	Water solubility temperature °C	Water solubility temperature °F
Sulfuric acid CAS#: 7664-93-9	Soluble	> 1000 mg/L	25 °C	77 °F

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national, and local laws and

regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

D002

Special instructions for disposal

Work in an approved fume hood. Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium

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bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

14. TRANSPORT INFORMATION

<u>DOT</u>

UN/ID no UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, N.O.S.

DOT Technical Name (<45% Sulfuric Acid solution)

Hazard Class 8
Packing Group III
Emergency Response Guide 154

Number

TDG

UN/ID no UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, N.O.S.

TDG Technical Name (<45% Sulfuric Acid solution)

Hazard Class 8
Packing Group III

<u>IATA</u>

UN/ID no UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, N.O.S.

IATA Technical Name (<45% Sulfuric Acid solution)

Hazard Class 8
Packing Group III
ERG Code 154

IMDG

UN/ID no UN3264

IMDG Technical Name (<45% Sulfuric Acid solution)

Hazard Class 8
Packing Group III

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

TSCA Complies
DSL/NDSL Complies

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
Complies
ENCS
Complies
IECSC
Complies
KECL
PICCS
Complies
TCSI
AICS
Complies
Complies
Complies

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NZIoC

Complies

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS- Japan Existing and New Chemical Substances

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

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)

	CWA - Reportable Quantities	CWA - Toxic Pollutants		CWA - Hazardous Substances
Sulfuric acid	1000 lb	-	-	X
7664-93-9				

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

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

		U.S DEA (Drug Enforcement Administration) - List II or Essential Chemicals
Sulfuric acid	Not Listed	50 gallon Export Volume (exports,
(7 - 13%)		transshipments and international
CAS#: 7664-93-9		transactions to designated countries)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	. Pennsylvania
Sulfuric acid	Х	X	X
7664-93-9			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

Additional information

Global Automotive Declarable Substance List (GADSL)

Not applicable

Special Comments

None

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 - See section 8 for more information

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

NIOSH IDLH

ACGIH

Immediately Dangerous to Life or Health

NDF

ACGIH (American Conference of Governmental Industrial Hygienists)

no data

<u>Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

MAC

Maximum Allowable Concentration

Ceiling

Ceiling Limit Value

Х

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 Hazard Designation

RSP+ С

Respiratory sensitization Carcinogen

R

Reproductive toxicant

М

mutagen

Prepared By

Hach Product Compliance Department

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Product Name Acid Digestion Vials for Low Range TOC **Revision Date** 20-Jan-2017 **Page** 17 / 17

Revision Date

20-Jan-2017

Revision Note

None

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