

# **SAFETY DATA SHEET**

Issue Date 07-Sep-2019

Revision Date 31-Jul-2024

1. IDENTIFICATION

Version 4

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	1. IDENTIFICATION		
<u>Product identifier</u> Product Name	Mercuric Nitrate 2.256 ± 0.005 N		
<u>Other means of identification</u> Product Code(s)	92101		
Safety data sheet number	M00378		
UN/ID no	UN2922		
Recommended use of the chem	ical and restrictions on use		
Recommended Use	Laboratory Use. Determination of chloride.		
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 3
Acute toxicity - Dermal	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Aquatic Acute Toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word Danger



#### Hazard statements

H290 - May be corrosive to metals

- H301 Toxic if swallowed
- H310 Fatal in contact with skin
- H314 Causes severe skin burns and eye damage
- H330 Fatal if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

- P501 Dispose of contents/ container to an approved waste disposal plant
- P262 Do not get in eyes, on skin, or on clothing
- P270 Do not eat, drink or smoke when using this product
- P310 Immediately call a POISON CENTER or doctor/physician
- P405 Store locked up
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P284 Wear respiratory protection
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- 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
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- 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
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

#### Other Hazards Known

None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### <u>Mixture</u>

Chemical Family Chemical nature Mixture. Aqueous solution of inorganic acids and salts.

#### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Mercury(II) nitrate	10045-94-0	20 - 30%	-
Nitric acid	7697-37-2	<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.
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 contact	Get 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. Do not breathe vapor or mist. 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.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation.
Indication of any immediate medica	I 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

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the 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	Mercury. Nitrogen oxides.
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. 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.	
Personal precautions, protective ed	quipment 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. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak. Attention! Corrosive material.	
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 containm	ent 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. Do not breathe vapor or mist. 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
Mercury(II) nitrate	TWA: 0.025 mg/m <sup>3</sup> Hg	(vacated) Ceiling: 0.1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Hg

CAS#: 10045-94-0	Sk*		Ceiling: 0.1 mg/m <sup>3</sup> Hg	
			TWA: 0.05 mg/m <sup>3</sup> except Organo alkyls Hg vapor	
Nitric acid	TWA: 2 ppm	TWA: 2 ppm	IDLH: 25 ppm	
CAS#: 7697-37-2	STEL: 4 ppm	TWA: 5 mg/m <sup>3</sup>	TWA: 2 ppm	
		(vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	
		(vacated) TVA. 5 mg/m <sup>o</sup> (vacated) STEL: 4 ppm	STEL: 4 ppm STEL: 10 mg/m <sup>3</sup>	
		(vacated) STEL: 10 mg/m <sup>3</sup>		
Appropriate engineering controls				
Engineering Controls	Showers			
0 0	Eyewash stations			
	Ventilation systems.			
Individual protection measures, su				
Respiratory protection			limit they must use appropriate	
	certified respirators. Ensure adequate ventilation. Where reasonably practicable this			
	should be achieved by the use of local exhaust ventilation and good general extraction.			
Hand Protection	Wear suitable gloves. Impervious gloves.			
Eye/face protection	Face protection shield.			
Skin and body protection		able protective clothing. Long s		
	resistant apron. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.			
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			
		hing. Remove and wash contain		
		use. Wash hands before break		
	handling the product. Do not breathe vapor or mist. Contaminated work clothing should not			
	be allowed out of the workplac	e.		
For the second state of th			and he contained Device "	
Environmental exposure controls	Is 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 hereads				
Thermal hazards	None under normal processing.			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Odorless	Liquid	Color Odor threshold	Colorless to light yellow No data available
<b>Property</b>			<u>Values</u>	Remarks • Method
Molecular weigh	t		Not applicable	
рН			0.6	@ 20 °C
Melting point / fr	eezing point		~ -8 °C / 17.6 °F	
Initial boiling poi	int and boiling rang	e	~ 102 °C / 215.6 °F	
Evaporation rate			0.86 (water = 1)	
Vapor pressure			22.877 mm Hg / 3.05 kPa at 2	25 °C / 77 °F

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Relative vapor density	0.66
Specific gravity - VALUE 1	1.34
Partition coefficient	Not applicable
Soil Organic Carbon-Water Partition	Not applicable
Coefficient Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available

#### 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
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other information**

#### Metal Corrosivity

Classified as corrosive to metal according to GHS criteria Steel Corrosion Rate Aluminum Corrosion Rate

0.1 mm/yr / 0 in/yr No data available

#### Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	s CAA (Clean Air Act)	
Mercury(II) nitrate	10045-94-0	No data available	-	
Nitric acid	7697-37-2	Not applicable	-	

#### **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	No data available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:	No data available No data available
Oxidizing properties	No data available.
Bulk density	No data available

#### **10. STABILITY AND REACTIVITY**

#### Reactivity

Not applicable. 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. Excessive heat.

#### 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	Fatal if inhaled. 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	Fatal 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	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness.
Acute toxicity	

Acute toxicity Toxic if swallowed Fatal in contact with skin Fatal if inhaled

#### Mixture

Test data reported below.

#### Oral Exposure Route

Endpoint type Rat LD <sub>50</sub>	Reported dose 210 mg/kg	Exposure time None reported	Toxicological effectsBehavioralChewing motionSedationTremorEyeLacrimationPtosisGastrointestinalLoose stoolMucinous stoolLungs, Thorax, or	Key literature references and sources for data Outside testing
			Mucinous stool Lungs, Thorax, or	
			<b>Respiration</b> 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
Mercury(II) nitrate (20 - 30%) CAS#: 10045-94-0	Rat LD₅₀	26 mg/kg	None reported	None reported	LOLI

#### Dermal Exposure Route

#### Inhalation (Dust/Mist) Exposure Route

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)	18.40 mg/kg
ATEmix (inhalation-dust/mist)	0.184 mg/l
ATEmix (inhalation-vapor)	300.70 mg/l
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

Causes severe burns.

#### Mixture

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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
Mercury(II) nitrate (20 - 30%) CAS#: 10045-94-0	Existing human experience	Human	None reported	None reported	Skin irritant	HSDB
Nitric acid (<1%) CAS#: 7697-37-2	Existing human experience	Human	None reported	None reported	Corrosive to skin	ERMA

#### Serious eye damage/irritation

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

#### 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
Mercury(II) nitrate (20 - 30%) CAS#: 10045-94-0	Existing human experience	Human	None reported	None reported	Corrosive to eyes	HSDB
Nitric acid (<1%) CAS#: 7697-37-2	Existing human experience	Human	None reported	None reported	Corrosive to eyes	ERMA

#### **Respiratory or skin sensitization**

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

#### Mixture

No data available.

#### **Ingredient Sensitization Data**

No data available.

#### 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.

#### **Dermal Exposure Route**

ſ	Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
		type	dose	time		sources for data
	Nitric acid	Rat	226500 mg/kg	None reported	Blood	RTECS
	(<1%)	TDLo			Methemoglobinemia-Carboxyhe	
	CAS#: 7697-37-2				moglobin	

#### Inhalation (Vapor) Exposure Route

Che	mical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
	Nitric acid (<1%) #: 7697-37-2	Rat TC⊾₀	460 mg/L	1 hours	Nutritional and Gross Metabolic Weight loss or decreased weight gain	RTECS

#### STOT - repeated exposure

May cause damage to organs.

#### Mixture

No data available.

#### **Ingredient Specific Target Organ Toxicity Repeat 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
Nitric acid (<1%) CAS#: 7697-37-2	Rat TC⊾o	0.001071 mg/L	84 days	Behavioral Muscle contraction or spasticity Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (true cholinesterase) Kidney, Ureter, or Bladder Other changes in urine composition	

#### **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
Mercury(II) nitrate	10045-94-0	-	Group 2A	-	Х
			Group 3		
Nitric acid	7697-37-2	-	Group 1	-	Х
			Group 2A		

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 3 - Not Classifiable as to
	Carcinogenicity in Humans
NTP (National Toxicology Program)	Does not apply
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
Mercury(II) nitrate (20 - 30%) CAS#: 10045-94-0	Micronucleus test	Hamster fibroblast	0.0002 mmol/L	8 hours	Positive test result for mutagenicity	RTECS

#### 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.

#### **Oral Exposure Route**

Chemical name	Endpoint	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
	type				
Mercury(II) nitrate	None reported	None reported	96 hours	Effects on Embryo or Fetus	No information available
(20 - 30%)				Significant concentrations of	
CAS#: 10045-94-0				substance found in maternal,	
				placental and embryonic tissues.	
Nitric acid	Rat	21150 mg/kg	21 days	Effects on Embryo or Fetus	RTECS
(<1%)	TDLo			Fetotoxicity (except death e.g.	
CAS#: 7697-37-2				stunted fetus)	

#### 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
Mercury(II) nitrate (20 - 30%) CAS#: 10045-94-0	96 hours	Pimephales promelas	LC50	0.172 mg/L	EPA

#### Crustacea

Chemical	name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Mercury(II) (20 - 30 CAS#: 1004	)%)	48 Hours	None reported	LC50	0.0049 mg/L	GESTIS

### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

**Mixture** No data available.

<u>Bioaccumulation</u> There is no data for this product **Mixture** No data available.

#### Partition coefficient

#### **Mobility**

Soil Organic Carbon-Water Partition Coefficient

### Other adverse effects

#### No information available

13. DISPOSAL CONSIDERATIONS

Not applicable

Not applicable

Waste treatment methods	
Waste from residues/unused products	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	D009, D002
Special instructions for disposal	Decontaminate any equipment or surfaces that have come in contact with mercury with commercially available mercury absorbing compounds. 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**

#### DOT

UN/ID no Proper shipping name DOT Technical Name Transport hazard class(es) Subsidiary class Packing Group Reportable Quantity (RQ) Emergency Response Guide Number	UN2922 Corrosive liquids, toxic, n.o.s. Mercury(II) nitrate, Nitric acid 8 6.1 II Mercuric nitrate: RQ kg= 13.30 154
TDG UN/ID no Proper shipping name TDG Technical Name Transport hazard class(es) Subsidiary class Packing Group	UN2922 Corrosive liquid, toxic, n.o.s. Mercury(II) nitrate, Nitric acid 8 6.1 II
IATA UN number or ID number Proper shipping name IATA Technical Name Transport hazard class(es) Subsidiary hazard class Packing group ERG Code Special Provisions	UN2922 Corrosive liquid, toxic, n.o.s. Mercury(II) nitrate, Nitric acid 8 6.1 II 8P A3, A803
IMDG UN number or ID number Proper shipping name IMDG Technical Name Transport hazard class(es) Subsidiary hazard class Packing Group EmS-No Special Provisions	UN2922 Corrosive liquid, toxic, n.o.s. Mercury(II) nitrate, Nitric acid 8 6.1 II F-A, S-B 274

#### 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	Complies
PICCS	Complies

TCSI	Complies
AICS	Complies
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 does not contain any 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 %
Nitric acid (CAS #: 7697-37-2)	1.0

#### SARA 311/312 Hazard Categories

Yes
Yes
No
No
No

#### CWA (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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Mercury(II) nitrate 10045-94-0	10 lb	Х	-	Х
Nitric acid 7697-37-2	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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Mercury(II) nitrate	10 lb	-	RQ 10 lb final RQ
10045-94-0			RQ 4.54 kg final RQ
Nitric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7697-37-2			RQ 454 kg final RQ

#### U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Nitric acid	Release - Toxic; Theft - Explosives/Improvised Explosive Device
(<1%)	Precursors
CAS#: 7697-37-2	

#### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65	
Mercury(II) nitrate (CAS #: 10045-94-0)	Developmental	

WARNING: This product can expose you to chemicals including Mercury(II) nitrate, which is known to the State of California to cause birth defects or other 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
Mercury(II) nitrate 10045-94-0	Х	X	Х
Nitric acid 7697-37-2	Х	X	Х

#### **U.S. EPA Label Information**

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

<u>Special Comments</u> This product contains mercury and may be subject to reporting and recordkeeping requirements

#### **Additional information**

#### **Global Automotive Declarable Substance List (GADSL)**

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Mercury(II) nitrate	Declarable Substance (LR)	0.0005 %
10045-94-0	Prohibited Substance (LR)	0.1 %

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 4	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 4 - *	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	CCRIS (Chemical Carcinogenesis Research Information System)
CDC	CDC (Center for Disease Control)
CEPA	CEPA (Canadian Environmental Protection Agency)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)

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ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		FDA (Food & Drug Adm GESTIS (Information S Insurance) HSDB (Hazardous Sub- INERIS (The National In IPCS INCHEM (Interna- IUCLID (The Internation Japan National Institutes NIOSH (National Institutes NIOSH (National Institute OLI (List of Lists - An In no data Australia National Indus Immediately Dangerous OSHA (Occupational Sa PEEN (Pan European E RTECS (Registry of To SIDS (Screening Inform The Finnish Environme USDA (United States D USDC (United States D WHO (World Health Org	DSARS v1.11 part of hinistration) System on Hazardou stances Data Bank) ndustrial Environmer tional Programme or hal Uniform Chemica of Technology and of Health) te for Occupational S nternational Chemic strial Chemicals Noti a to Life or Health afety and Health Adr Ecological Network) xic Effects of Chemic hation Dataset) for H nt Institute (SYKE) epartment of Agricul epartment of Comm ganization)	the Estimation Programs Interface (EPI) Suite™ is Substances of the German Social Accident in and Risks Institute) in Chemical Safety) in Information Database) Evaluation (NITE) Safety and Health) cal Regulatory Database) fication and Assessment Scheme (NICNAS) ministration of the US Department of Labor) cal Substances) igh Volume Chemicals
		ONTROLS/PERSONAL I		
TWA	TWA (time-weight	0,	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowab	le 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* RSP+ C	Skin designation Respiratory sensit Carcinogen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant

Μ	mutagen	
Prepared By		Hach Product Compliance Department
Issue Date		07-Sep-2019
<b>Revision Date</b>		31-Jul-2024
<b>Revision Note</b>		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