

SAFETY DATA SHEET

Issue Date 25-Sep-2019

Revision Date 25-Sep-2019

Version 2.6

1. IDENTIFICATION				
Product identifier				
Product Name	PhosVer® 3 Phosphate Reagent			
Other means of identification				
Product Code(s)	220999			
Safety data sheet number	M00038			
UN/ID no	UN3260			
Recommended use of the chemical and restrictions on use				
Recommended Use	Laboratory reagent Phosphate determination			
Uses advised against	No information available			
Details of the supplier of the safety data sheet				
Initial Supplier Identifier Hach Sales & Service LP. 3020 Gore Road, London, Ontario N5V 4T7 Canada Tel: 1-800-665-7635				
<u>Manufacturer Address</u> Hach Company P.O. Box 389 Loveland, CO 80539 USA +1(970) 669-3050				
Emergency telephone number				
Emergency Telephone	Chemtrec 1-800-424-9300 CANUTEC 613-992-4624			

2. HAZARD IDENTIFICATION

Classification

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Label elements

Signal word - Danger

Hazard statements

H314 - Causes severe skin burns and eye damage



Precautionary Statements

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep 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

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

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

Unknown Acute Toxicity

21.32 % of the mixture consists of ingredient(s) of unknown toxicity.

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

21.32 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

21.32 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Other Hazards Known

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Family

Mixture.

Chemical name	Synonyms	CAS No.	Percent Range	Units	HMIRA #
Potassium pyrosulfate	No information	7790-62-7	70 - 80%	g	-
	available				
Sodium molybdate	No information	7631-95-0	1 - 5%	g	-
	available				
Tetrasodium EDTA,	Glycine,	10378-23-1	<1%	g	-
dihydrate	N,N'-1,2-ethanediyl				
	bis[N-(carboxymeth				
	yl)-, tetrasodium				
	salt, dihydrate				
Antimonate(2-),	No information	28300-74-5	<1%	g	-
bis[.mu(2,3-dihydroxybut					
anedioato(4-)-O1,O2:O3,O					
4)]di-, dipotassium,					
trihydrate, stereoisomer					

4. FIRST AID MEASURES

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
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.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	

Indication of any immediate medical attention and special treatment needed

Note to physiciansProduct 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	Sulfur oxides. Carbon monoxide, Carbon dioxide. Sodium monoxide. Potassium oxides. 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

Personal precautions, protective equipment and emergency procedures

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	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. 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 containme	ent 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.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

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. 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. Take off contaminated clothing and wash before reuse.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Sodium molybdate 1 - 5%	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 5 mg/m³	TWA: 0.5 mg/m ³
Antimonate(2-), bis[.mu(2,3-dihydroxybut anedioato(4-)-O1,O2:O3,O 4)]di-, dipotassium, trihydrate, stereoisomer <1%		TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m³

Chemical name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward Island OEL
Sodium molybdate 1 - 5%	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³

Antimonate(2-),	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
bis[.mu(2,3-dihydroxybut	STEL: 1.5 mg/m ³		STEL: 1.5 mg/m ³		-
anedioato(4-)-01,02:03,0	-		-		
4)]di-, dipotassium,					
trihydrate, stereoisomer					
<1%					

Chemical name	Quebec OEL	Saskatchewan OEL	Yukon OEL
Sodium molybdate	TWA: 5 mg/m ³	TWA: 0.5 mg/m ³	STEL: 10 mg/m ³
1 - 5%		STEL: 1.5 mg/m ³	TWA: 5 mg/m ³
Antimonate(2-),	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	STEL: 0.75 mg/m ³
bis[.mu(2,3-dihydroxybutanedioato(4-		STEL: 1.5 mg/m ³	TWA: 0.5 mg/m ³
)-O1,O2:O3,O4)]di-, dipotassium,			
trihydrate, stereoisomer			
<1%			

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium molybdate	TWA: 0.5 mg/m ³ Mo	TWA: 5 mg/m ³	IDLH: 1000 mg/m ³ Mo
1 - 5%	respirable particulate matter	(vacated) TWA: 5 mg/m ³	
Antimonate(2-),	TWA: 0.5 mg/m ³ Sb	TWA: 0.5 mg/m ³	IDLH: 50 mg/m ³ Sb
bis[.mu(2,3-dihydroxybutanedioato(4-	-	(vacated) TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ Sb
)-O1,O2:O3,O4)]di-, dipotassium,			-
trihydrate, stereoisomer			
<1%			

Legend

See section 16 for terms and abbreviations

Appropriate engineering controls	
Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are 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	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
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.
0	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

220999 - PhosVer® 3 Phosphate Reagent

Appearance Odor	powder Odorless		Color Odor threshold	white No data ava	ailable
Property_		Values			Remarks • Method
Molecular weigh	t	No data availa	ble		
рН		~1.1			5% Solution
Melting point/fre	ezing point	190 °C / 37	4 °F		
Boiling point / bo	biling range	No data availa	ble		
Evaporation rate		Not applicable			
Vapor pressure		Not applicable			
Vapor density (a	ir = 1)	Not applicable			
Specific gravity	(water = 1 / air = 1)	2.17			
Partition Coeffic	ient (n-octanol/water)	log Kow ~ -0.51			
Soil Organic Car Coefficient	bon-Water Partition	log K _{oc} ~ -0.28			
Autoignition tem	perature	No data availa	ble		
Decomposition t	emperature	No data availa	ble		
Dynamic viscosi	ty	Not applicable			
Kinematic viscos	sity	Not applicable			
<u>Solubility(ies)</u>					

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

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable Not applicable

Volatile Organic Compounds (VOC) Content Not applicable

Chemical name	CAS No.	Volatile organic	CAA (Clean Air Act)
		compounds (VOC) content	
Potassium pyrosulfate	7790-62-7	No data available	-
Sodium molybdate	7631-95-0	No data available	-
Tetrasodium EDTA, dihydrate	10378-23-1	Not applicable	-
Antimonate(2-),	28300-74-5	No data available	-
bis[.mu(2,3-dihydroxybutanedioato(4-			

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
)-O1,O2:O3,O4)]di-, dipotassium,			
trihydrate, stereoisomer			

Explosive properties

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
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

Not applicable.
Chemical stability Stability

Reactivity

Stable under normal conditions.

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

<u>Possibility of Hazardous Reactions</u> Possibility of Hazardous Reactions None under normal processing.

<u>Hazardous polymerization</u> None under normal processing.

<u>Conditions to avoid</u> Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials Incompatible materials

Acids. Bases. Oxidizing agent.

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	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

Symptoms

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

Acute toxicity

Based on available data, the classification criteria are not met

Product Acute Toxicity Data

No data available.

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
Potassium pyrosulfate (70 - 80%) CAS#: 7790-62-7	Rat LD₅₀	2340 mg/kg	None reported	None reported	Vendor SDS
Sodium molybdate (1 - 5%) CAS#: 7631-95-0	Rat LD ₅₀	4000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Tetrasodium EDTA, dihydrate (<1%) CAS#: 10378-23-1	Rat LD₅₀	2700 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Antimonate(2-), bis[.mu(2,3-dihydrox ybutanedioato(4-)-O1 ,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer (<1%) CAS#: 28300-74-5	Rat LD₅o	115 mg/kg	None reported	None reported	Vendor SDS

Dermal Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium molybdate (1 - 5%)	Rat LD50	> 2000 mg/kg	None reported	None reported	Vendor SDS
CAS#: 7631-95-0					

Inhalation (Dust/Mist) Exposure Route

	Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
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	type	dose	time		sources for data
Antimonate(2-), bis[.mu(2,3-dihydrox	None reported	None reported	None reported	None reported	No information available
ybutanedioato(4-)-O1 ,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer (<1%) CAS#: 28300-74-5	·				

Unknown Acute Toxicity

21.32 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 21.32 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 21.32 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Acute Toxicity Estimations (ATE)

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

ATEmix (oral)	2,878.50
ATEmix (dermal)	97,376.20
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Skin corrosion/irritation

Causes severe burns.

Product Skin Corrosion/Irritation Data

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
Potassium pyrosulfate (70 - 80%) CAS#: 7790-62-7	None reported	None reported	None reported	None reported	Corrosive to skin	Vendor SDS
Sodium molybdate (1 - 5%) CAS#: 7631-95-0	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

Serious eye damage/eye irritation

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

Product Serious Eye Damage/Eye Irritation Data

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
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220999 - PhosVer® 3 Phosphate Reagent

Potassium pyrosulfate (70 - 80%) CAS#: 7790-62-7	None reported	None reported	None reported	None reported	Corrosive to eyes	Vendor SDS
Sodium molybdate (1 - 5%) CAS#: 7631-95-0	Patch test	None reported	200 mg	None reported	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)
Antimonate(2-), bis[.mu(2,3-dihydrox ybutanedioato(4-)-O1 ,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer (<1%) CAS#: 28300-74-5	None reported	Rabbit	100 mg	24 hours	Eye irritant	No information available

Respiratory or skin sensitization

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

Product Sensitization Data

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
Sodium molybdate (1 - 5%)	OECD Test No. 406: Skin	Guinea pig	Not confirmed to be a skin sensitizer	Vendor SDS
CAS#: 7631-95-0	Sensitization			

STOT - single exposure

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

Product Specific Target Organ Toxicity Single Exposure Data No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data No data available.

STOT - repeated exposure

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

Product Specific Target Organ Toxicity Repeat Dose Data No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

Carcinogenicity

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

Product Carcinogenicity Data

No data available.

Ingredient Carcinogenicity Data

No data available.

Chemical name CAS No.	ACGIH	IARC	NTP	OSHA
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Potassium pyrosulfate	7790-62-7	-	-	-	-
Sodium molybdate	7631-95-0	A3	-	-	-
Tetrasodium EDTA,	10378-23-1	-	-	-	-
dihydrate					
Antimonate(2-),	28300-74-5	-	-	-	-
bis[.mu(2,3-dihydroxybut					
anedioato(4-)-O1,O2:O3,O					
4)]di-, dipotassium,					
trihydrate, stereoisomer					

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Germ cell mutagenicity

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

Product Germ Cell Mutagenicity invitro Data

No data available.

Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium molybdate (1 - 5%) CAS#: 7631-95-0	Phage inhibition capacity	Escherichia coli	16 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Germ Cell Mutagenicity invivo Data

No data available.

Ingredient Germ Cell Mutagenicity invivo Data

No data available.

Reproductive toxicity

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

Product Reproductive Toxicity Data

No data available.

Ingredient Reproductive Toxicity Data

No data available.

Aspiration hazard

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	Based on available data, the classification criteria are not met
Unknown Acute Toxicity	0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Product Ecological Data	

Aquatic Acute Toxicity

No data available.

Aquatic Chronic Toxicity No data available.

Ingredient Ecological Data

Aquatic Acute Toxicity

Test data reported below.

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium pyrosulfate (70 - 80%) CAS#: 7790-62-7	96 hours	Oncorhynchus mykiss	LC ₅₀	420 mg/L	ERMA (New Zealands Environmental Risk Management Authority)
Sodium molybdate (1 - 5%) CAS#: 7631-95-0	96 hours	Oncorhynchus mykiss	LC ₅₀	800 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Antimonate(2-), bis[.mu(2,3-dihydrox ybutanedioato(4-)-O1 ,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer (<1%) CAS#: 28300-74-5	96 hours	None reported	LC ₅₀	12.5 mg/L	Vendor SDS

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium pyrosulfate (70 - 80%) CAS#: 7790-62-7	48 Hours	Daphnia magna	EC ₅₀	140 mg/L	ERMA (New Zealands Environmental Risk Management Authority)

Aquatic Chronic Toxicity

No data available.

Canadian Environmental Protection Act (CEPA) - Domestic Substances List (DSL): Environmentally Hazardous Substances Categorizations

Chemical name	Category	Persistent	Bioaccumulation	Inherently Toxic to Aquatic Organisms
Antimonate(2-), bis[.mu(2,3-dihydroxybutanedi oato(4-)-O1,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer (<1%) CAS#: 28300-74-5	Organometallics	Yes	No	Yes

Persistence and degradability

Product Biodegradability Data

No data available.

Bioaccumulation

Product Bioaccumulation Data No data available.

Partition Coefficient (n-octanol/water)	log K₀w ~ -0.51

Mobility

Soil Organic Carbon-Water Partition Coefficient log Koc ~ -0.28

Other adverse effects

Contains a substance with an endocrine-disrupting potential.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

<u>Transport Canada</u> UN/ID no Proper shipping name DOT Technical Name Hazard Class Packing Group Description Emergency Response Guide Number	UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. Potassium pyrosulfate 8 III UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium pyrosulfate), 8, III 154
TDG UN/ID no Proper shipping name TDG Technical Name Hazard Class Packing Group Description	UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. Potassium pyrosulfate 8 III UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium pyrosulfate), 8, III
IATA UN/ID no Proper shipping name IATA Technical Name Hazard Class Packing Group ERG Code	UN3260 Corrosive Solid, Acidic, Inorganic, N.O.S. Potassium pyrosulfate 8 III 8L
IMDG UN/ID no Proper shipping name IMDG Technical Name Hazard Class	UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. Potassium pyrosulfate 8

Packing Group	III
EmS-No	F-A, S-B
Special precautions for user	223, 274
Description	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium pyrosulfate), 8,

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

Regulatory information

National Inventories	
DSL/NDSL	Complies

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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

Canada - CEPA - Mercury Containing Products None

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not applicable
The Stockholm Convention on Persistent Organic Pollutants	Not applicable
The Rotterdam Convention	Not applicable

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

Special Comments

None

NFPA and HMIS Classifications

NFPA	Health h	azards - 3	Flamma	Flammability - 0		Instability - 0	Physical and chemical properties -	
HMIS	Health h	azards - 3	Flamma	bility - 0	Ph	ysical hazards - 0	Personal protection - X	
Key or legend to abbreviations and acronyms used in the safety data sheet								
NIOSH IDLH ACGIH NDF	ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)						ists)	
Legend - Section	n 8: EXPOSURE CO	ONTROLS/PE	RSONAL PR	OTECTION				
TWA	TWA TWA (time-weighted average)			STEL		STEL (Short Term Exposure Limit)		
MAC	Maximum Allowable Concentration		on	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 M				SKN+ ** R		Skin sensitization Hazard Designation Reproductive toxicant		
Prepared By		Hach Product Compliance Department						
Issue Date		25-Sep-2019	1					
Revision Date		25-Sep-2019	1					
Revision Note None								
<u>Disclaimer</u>								

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.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet