

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 17 NOV 2022

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Substance name	: Periodic Acid 0.5%
Product code	: 3376-16
Formula	: H ₅ IO ₆
Synonyms	: o-periodic acid; orthoperiodic acid
1.2. Recommended use and restriction	ons on use
Use of the substance/mixture	: Laboratory reagent
1.3. Supplier	
Astral Diagnostics Inc. Logan Township NJ 08085 - United States T +1 856 224 0900 800-441-0366 Technical Service; Monday-Fri www.ethosbiosciences.com 1.4. Emergency telephone number	iday: 8:00AM-5:00 PM, Eastern US Time
Emergency number	: 800-424-9300 CHEMTREC (USA) 24 Hours/Day, 7 Days/Week
SECTION 2: Hazard(s) identification	bn
2.1. Classification of the substance o	
GHS US classification	
2.2. GHS Label elements, including p GHS US labeling Hazard pictograms (GHS US)	recautionary statements
Signal word (GHS US) Hazard statements (GHS US)	 Danger H314 - Causes severe skin burns and eye damage P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statements (GHS US)	 P220 - Keep/Store away from clothing and other combustible materials P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P316 - IF SWALLOWED: Get emergency medical help immediately. 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/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 P321 - Specific treatment (see supplemental first aid instruction on this label)

Other hazards which do not result in classification 2.3.

No additional information available

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2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Information on ingredients				
3.1. Substances				
Substance type Not applicable				
3.2. Mixtures				
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Periodic Acid	o-periodic acid; orthoperiodic acid	(CAS-No.) 10450-60-9	0.5	Ox. Sol. 2, H272 Skin Corr. 1, H314
Water		(CAS-No.) 7732-18-5	99.5	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures 4.1. Description of first aid measure	s
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious
	with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: Remove the victim into fresh air. Keep comfortable for breathing. Immediately consult a physicial
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes). Wash immediately with PE-glycol 400. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
First-aid measures after eye contact	 Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Call Poison Control (800) 222-1222 (US only). Do not give chemical antidote. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms and o	effects (acute and delayed)
Potential Adverse human health effects and symptoms	: Causes severe skin burns. Corrosive to the respiratory tract. Causes serious eye damage.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention an	d special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measur	es
5.1. Suitable (and unsuitable) exting	
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.
5.2. Specific hazards arising from th	e chemical
Fire hazard	: INDIRECT FIRE HAZARD: May intensify fire; oxidizer. Temperature above flashpoint: higher fire explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
5.3. Special protective equipment a	nd precautions for fire-fighters
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.
Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen Protective equipment apparatus. : Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes. Emergency procedures In case of reactivity hazard: consider evacuation. For emergency responders 6.1.2. : Do not attempt to take action without suitable protective equipment. For further information Protective equipment refer to section 8: "Exposure controls/personal protection". 6.2. **Environmental precautions** Prevent soil and water pollution. Prevent spreading in sewers. Methods and material for containment and cleaning up 6.3. : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam For containment up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Spill must Methods for cleaning up not return in its original container. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Other information Dispose of materials or solid residues at an authorized site. 6.4. **Reference to other sections** For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Keep container tightly closed. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Hygiene measures Always wash hands after handling the product. Conditions for safe storage, including any incompatibilities 7.2. Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. : Combustible materials. Incompatible materials Storage temperature . 4 °C : KEEP SUBSTANCE AWAY FROM: heat sources. Heat-ignition Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. organic materials. (strong) bases. water/moisture. Storage area Store in a dry area. Store in a dark area. Keep container in a well-ventilated place. Meet the

Packaging materials

Special rules on packaging

SECTI	SECTION 8: Exposure controls/personal protection		
8.1.	Control parameters		
Period	Periodic Acid, solid (10450-60-9)		
No additional information available			

SPECIAL REQUIREMENTS: closing. watertight. dry. clean. opaque. correctly labelled. meet

the legal requirements. Secure fragile packagings in solid containers.

8.2.	Appropriate engineering controls	
Appropria	te engineering controls	: Ensure good ventilation of the work station.

legal requirements.

: SUITABLE MATERIAL: glass.

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Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Gloves

Eye protection:

Safety glasses or chemical splash goggles + face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: Mild odor
Odor threshold	: No data available
рН	: ~2
Melting point	: ~0 °C
Freezing point	: ~0 °C
Boiling point	: ~100 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
/apor pressure	: No data available
Relative vapor density at 20 °C	: Not applicable
Relative density	: No data available
Specific gravity / density	: No data available
Solubility	: Soluble in water.
_og Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
/iscosity, kinematic	: No data available
√iscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: May intensify fire; oxidizer.

9.2. **Other information**

Other properties

: Acid reaction.

SECTI	SECTION 10: Stability and reactivity			
10.1.	Reactivity			
The prod	uct is non-reactive under normal conditions of use, storage, and transport.			

10.2. **Chemical stability**

Stable under normal conditions of use.

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10.3.	Possibility	of hazardous reactions
10.5.	I USSIDIIILY	UI Hazaruous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Hydrogen iodide.

SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Conierro ave demons l'unitation	pH: ~2
Serious eye damage/irritation	: Eye damage, category 1, implicit pH: ~ 2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Causes severe skin burns. Corrosive to the respiratory tract. Causes serious eye damage.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology -	general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Biodegradability: not applicable.
Not applicable
Not applicable
Not applicable

12.3.	Bioaccumulative potential	
Period	dic Acid, solid (10450-60-9)	
Bioaco	cumulative potential	No bioaccumulation data available.

12.4.	Mobility in soil	

No additional information available

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12.5. Other adverse effects

No additional information available

3.1. Disposal methods		
aste treatment methods	: Waste treatment methods.	
roduct/Packaging disposal recommendations	: Do not discharge into drains or the environment. Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse.	

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information			
15.1. US Federal regulations			
Periodic Acid, solid (10450-60-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
15.2. International regulations			

CANADA

Periodic Acid, solid (10450-60-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations No additional information available

15.3. US State regulations

No additional information available

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SECTION 16: Other information	
Initial Date	: 11 DEC 2013
Revision Date	: 17 NOV 2022

Full text of H-phrases:

H272	May intensify fire; oxidizer	
H314	Causes severe skin burns and eye damage	
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as	
NFPA reactivity	concrete, stone, and sand. : 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating	\sim	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Personal protection	: B B - Safety glasses, Gloves	

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