

SAFETY DATA SHEET

Creation Date 31-May-2012

Revision Date 26-Dec-2021

Revision Number 5

1. Identification

Product Name

lodic acid

Cat No. :

CAS No

Synonyms

AC423810000; AC423811000; AC423815000

7782-68-5 Hydrogen lodate

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 1 A Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

May intensify fire; oxidizer Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention

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

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

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

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Iodic acid (HIO3)		7782-68-5	>95	
	4.	First-aid measures		
General Advice	General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.			
Skin Contact		sh off immediately with soap and plenty of water while removing all contaminated nes and shoes. Call a physician immediately.		
Inhalation	Remove to f	resh air. If not breathing, give artificial	respiration. Call a physician or poison	

Notes to Physician	be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
	control center 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.

5. Fire-fighting measures

Suitable Extinguishing Media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

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

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

<u>NFPA</u> Health F 3		Flammability 3	Instability 3	Physical hazards OX	
		6. Accidental rel	ease measures		
Personal F	Personal Precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Ave contact with skin, eyes or clothing.				
Environme	ental Precautions	Should not be released into the environment. Do not allow material to contaminate ground water system.			
Methods fe Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Soak u Up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.				
		7. Handling a	and storage		
Handling		.	or on clothing. Wear persona a chemical fume hood. Do not	l protective equipment/face breathe dust. Do not ingest. If	

	swallowed then seek immediate medical assistance. Keep away from clothing and other combustible materials.		
Storage.	Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Incompatible Materials. Organic materials. Alcohols Reducing Agent. Strong reducing agents. Combustible material.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Tight sealing safety goggles. Face protection shield.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties				
Physical State	Powder Solid			
Appearance	Beige			
Odor	Odorless			
Odor Threshold	No information available			
рН	2.0 Acidic			
Melting Point/Range	110 °C / 230 °F			
Boiling Point/Range	No information available			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	negligible			
Vapor Density	Not applicable			
Specific Gravity	No information available			
Solubility	Soluble in water			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	H I O3			
Molecular Weight	175.91			

10. Stability and reactivity

Reactive Hazard

Yes

Stability

Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire. Sensitivity to light.

Conditions to Avoid	Incompatible products. Excess heat. Combustible material. Exposure to light.
Incompatible Materials	Organic materials, Alcohols, Reducing Agent, Strong reducing agents, Combustible material
Hazardous Decomposition Product	${f s}$ Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products	No acute toxicity information is available for this product No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Irritation	Causes burns by all exposure routes		
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Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
lodic acid (HIO3)	7782-68-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effects		No information available.				
Developmental Effects		No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects,b delayed	ooth acute and	Product is a corros Possible perforatio severe swelling, se	on of stomach or e	sophagus should b	e investigated: Ing	jestion causes
Endocrine Disruptor Information		No information available				
Other Adverse Effects	5	The toxicological properties have not been fully investigated.				
		12 Ecol	ogical infor	mation		

12. Ecological information

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Ecotoxicity
Do not empty into drains.
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Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Technical Name	(IODIC ACID)
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
<u>TDG</u>	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	
	15 Degulatory inform

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
lodic acid (HIO3)	7782-68-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
lodic acid (HIO3)	7782-68-5	Х	-	231-962-1	Х	Х	Х	Х	Х	KE-21022

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories	See section 2 for more information		
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
OSHA - Occupational Safety and Health Administration	Not applicable		
CERCLA	Not applicable		
California Proposition 65	This product does not contain any Proposition 65 chemicals.		
U.S. State Right-to-Know Regulations	Not applicable		
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N		
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.		
Other International Regulations			
Mexico - Grade	No information available		

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)	
lodic acid (HIO3)	7782-68-5	Not applicable	Not applicable	Not applicable	Not applicable	
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)	
lodic acid (HIO3)	7782-68-5	Not applicable Not applicable		Not applicable	Not applicable	

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	31-May-2012 26-Dec-2021 26-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

End of SDS