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	Version 1
1 Identification	
Product identifier	
Product name: Iodic acid, ACS	
Stock number: 87681 CAS Number: 7782-68-5	
EC number: 231-962-1	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	3-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS03 Flame over circle	
Ox. Sol. 2 H272 May intensify fire; oxidizer.	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS03 GHS05	
Signal word Danger Hazard statements	
H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage.	
Precautionary statements P221 Take any precaution to avoid mixing with combustibles	
P210 Keep away from heat No smoking. P303+P361+P353 If on skin (or hair): 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.	
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
C - Oxidizing materials D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH Image: Arrow of the second s	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
7782-68-5 lodic acid Concentration: ≤100%	
Identification number(s): EC number: 231-962-1	
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4 First-aid measures
Description of first aid measures General information Immediately remove any clothing soiled by the product.
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor
Most important symptoms and effects, both acute and delayed Causes severe skin burns.
Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.
5 Fire-fighting measures Extinguishing media
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. For safety reasons unsuitable extinguishing agents Halocarbon extinguisher
Special hazards arising from the substance or mixture This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.
IT THIS DROULD IS INVOIVED IN A TIRE. THE TOILOWIND CAN BE RELEASED.
Hydrogen iodide (HI) Advice for firefighters Protective equipment:
Wear self-contained respirator
Wear fully protective impervious suit.
6 Accidental release measures
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:
Use neutralizing agent. Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation. Prevention of secondary hazards: Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material. Reference to other sections Constraint of the internation on onto the handling.
Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material
Reference to other sections See Section 7 for information on safe handling
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
Protective Action Criteria for Chemicals
PAC-1: 0.15 mg/m3 PAC-2: 1.7 mg/m3 PAC-3: 10 mg/m3
PAC-3: 10 mg/m3
7 Handling and storage
Handling Precautions for safe handling
<i>Frecautions for sale handing</i> Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. <i>Information about protection against explosions and fires:</i> Substance/product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.
Ensure good ventilation at the workplace.
Substance/product can reduce the ignition temperature of flammable substances.
Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from flammable substances.
Store away from reducing agents.
Store in the dark. Do not store with organic materials.
Do not store with organic materials. Store away from metal powders. Further information about storage conditions:
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers
Protect from exposure to light. Specific end use(s) No further relevant information available.
8 Exposure controls/personal protection Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Control parameters Components with limit values that require monitoring at the workplace:
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data Exposure controls
Personal protective equipment

Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.

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Protection of hands: Impervious gloves Check protective gloves prior to each us The selection of suitable gloves not only Material of gloves Nitrile rubber, NBR Penetration time of glove material (in	vorking environment. ntrations are present. e in case of insufficient ventilation. term use: r P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de nly use equipment tested and approved under appropriate government standards. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	(Contd. of page 2) etermine if air-	
Glove thickness: 0.11 mm Eye protection: Tightly sealed goggles Full face protection Safety glasses with side shields / NIOSH Body protection: Protective work clothi	н (US) or EN 166(EU) ng.		
9 Physical and chemical properties	;		
Information on basic physical and ch General Information Appearance: Form: Odor: Odor threshold:	emical properties Various forms (powder/flake/crystalline/beads, etc.) Odorless Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	110 °C (230 °F) (dec) Not determined Not determined Contact with combustible material may cause fire. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined Not applicable. 4.629 g/cm³ (38.629 lbs/gal) Not determined. Not applicable. Not applicable. 2690 g/l Not determined. Not applicable. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity May intensify fire; oxidizer. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with reducing agents Reacts with flammable substances Conditions to avoid No further relevant information available. Incompatible materials: Flammable substances Reducing agents Organic materials Metal powders Light Hazardous decomposition products: Hydrogen iodide (HI)			
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know	rious eye damage. wm. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH		
Specific target organ system toxicity			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec		(Contd. on page 4)	
		UUA	

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(Contd. of page a contraction of the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3085		
UN proper shipping name			
DOT ADR IMDG, IATA	Oxidizing solid, corrosive, n.o.s. (lodic acid) 3085 Oxidizing solid, corrosive, n.o.s. (lodic acid) OXIDIZING SOLID, CORROSIVE, N.O.S. (lodic acid)		
Transport hazard class(es) DOT Class Label ADR	5.1 Oxidizing substances 5.1, 8		
Class Label IMDG	5.1 (OC2) Oxidizing substances 5.1+8		
Class Label IATA	5.1 Oxidizing substances 5.1/8		
Class Label	5.1 Oxidizing substances 5.1 (8)		
Packing group DOT, ADR, IMDG, IATA	. ,		
DOT, ADR, IMDG, IATA Environmental hazards:	ll Not applicable.		
Special precautions for user	Warning: Oxidizing substances		
EMS Number: Stowage Category	F-A,S-Q B		
Handling Code Segregation Code	H1 Keep as dry as reasonably practicable SG38 Stow "separated from" ammonium compounds. SG49 Stow "separated from" cyanides SG60 Stow "separated from" peroxides		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information: DOT Quantity limitations	On passenger aircraft/rail: 5 kg On cargo aircraft only: 25 kg		
Marine Pollutant (DOT):	No		
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g		
UN "Model Regulation":	UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (IODIC ACID), 5.1 (8), II		
	USA – (Contd. on page 5)		

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Product name: Iodic acid, ACS

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15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms L.S. ٥, GHS03 GHS05 Signal word Danger Hazard statements H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage. Precautionary statements P221 Take any P210 Keep aw

 Precautionary statements

 P221
 Take any precaution to avoid mixing with combustibles.

 P210
 Keep away from heat. - No smoking.

 P303+P361+P353 If on skin (or hair): 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.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, come only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acromysic
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DT: US Department of Transportation
MAR: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LCS0: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPU: very Persistent, Bioaccumulative and Toxic
SVHC: Substance of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
NTP: National Toxicology Program (USA)
Xin Cr. Tle: Skin corrosion/irritation - Category 1B
Eye Dam: 1: Serious eye damage/eye irritation - Category 1 USA