

1 Identification Product identifier Product name: Diphenyliodonium iodide Stock number: L02351 **CAS Number:** 2217-79-0 EC number: 218-716-9 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. Inerrito Fisher Scheman C. 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) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 2217-79-0 Diphenyliodonium iodide Identification number(s): EC number: 218-716-9 4 First-aid measures Description of first aid measures After inhalation 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.

Product name: Diphenyliodonium iodide (Contd. of page 1) Seek immediate medical advice. 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 No further relevant information available. Indication of any immediate medical attention and special freatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen iodide (HI) Advice for firefiberor 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 Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections. See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Recautions for safe nanoing Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. 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 in the dark. Store away from oxidizing agents. 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: 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. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses

Body protection: Protective work clothing

## 9 Physical and chemical properties

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Information on basic physical and c General Information Appearance: Form: Color: Odor: Odor threshold:	hemical properties Powder Pale yellow to pale brown Not determined Not determined	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	162-164 °C (324-327 °F) Not determined	

## Product name: Diphenvliodonium iodide

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Product name: Diphenyliodonium io	dide	
		(Contd. of page 2)
Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable. Not determined	
Density: Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Soluble	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen iodide (HI)		
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> May cause respiratory irritation.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes:	ier relevant information available. elevant information available. mation available. ruantities to reach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma Recommended cleansing agent: Wate	r national regulations to ensure proper disposal. ade according to official regulations. r, if necessary with cleansing agents.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
DOT, ADR, ADN, IMDO, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
		(Contd. on page 4) USA

Product name: Diphenyliodonium iodide			
	(Contd. of page 3)		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex	II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":			
15 Regulatory information			
Safety, health and environmental regu	lations/legislation specific for the substance or mixture sified and labeled in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P280 Wear protective glove   P305+P351+P338 IF IN PCES: Rinse ca   P304+P340 IF INHALED: Remove   P405 Store locked up.   P501 Dispose of contents/c   National regulations This product is not listed in the U.S. Envi   to research and development only. This product is not listed on the Canadiai   This product is not listed on the Canadiai   This product is not listed on the Canadiai   SARA Section 313 (specific toxic chem   California Proposition 65   Prop 65 - Developmental toxicity subs   Prop 65 - Developmental toxicity, fema   Prop 65 - Developmental toxicity, male   Information about limitation of use: For   Other regulations, limitations and prol   Substance of Very High Concern (SVH)   The conditions of restrictions accordia   market and use must be observed.   Substance is not listed.	ancer Substance is not listed. tance is not listed. De Substance is not listed. Substance is not listed. r use only by technically qualified individuals.		
information to ensure proper use and pro	nly as a supplement to other information gathered by them, and should make independent judgement of suitability of this tect the health and safety of employees. This information is furnished without warranty, and any use of the product not in ta Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marke Date of preparation / last revision 11/2 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandl DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial ( CAS: Chemical Abstracts Service (division of the Ame- HMIS: Hazardous Materials Identification System (US/ WHMIS: Workplace Hazardous Materials Information S LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent CAGIH: American Conference of Governmental Indust OSHA: Occupational Safety and Health Administration NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	3/Ž015′/ - ises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Chemical Substances rican Chemical Society) System (Canada)		