

SAFETY DATA SHEET

Creation Date 23-Feb-2011

Revision Date 28-Dec-2021

Revision Number 4

1. Identification

Product Name

Propidium iodide

Cat No. :AC44030000, AC440300010, AC440300250, AC440301000CAS No
Synonyms25535-16-4
3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-phenylphenanthridinium diiodideRecommended Use
Uses advised againstLaboratory 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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Germ Cell Mutagenicity Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation Suspected of causing genetic defects



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention 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 %
3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-	25535-16-4	95
phenylphenanthridinium diiodide		

4. First-aid measures						
General Advice	If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if					

Notes to Physician	Treat symptomatically
Most important symptoms and effects	None reasonably foreseeable.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
	symptoms occur.

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, 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
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Hydrogen iodide.

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.

NFPA

Heal 2	th	Flammability 1	Instability 1	Physical hazards N/A						
		6. Accidental re	lease measures							
Personal Precau	tions	Ensure adequate ventilatic formation.	on. Use personal protective equ	uipment as required. Avoid dust						
Environmental P	recautions	Should not be released into the environment. See Section 12 for additional Ecological Information.								
Methods for Cor Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.									
	7. Handling and storage									
Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.										
Storage.	Keep container tightly closed in a dry and well-ventilated place. Keep refrigerated. F from light. Store under an inert atmosphere. Protect from moisture. Incompatible Ma Strong oxidizing agents.									
	8.	Exposure controls	/ personal protecti	on						
Exposure Guide	lines	This product does not cont	ain any hazardous materials w	vith occupational exposure						

limitsestablished by the region specific regulatory bodies.

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	220 - 225 °C / 428 - 437 °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	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C27 H34 I2 N4
Molecular Weight	668.39
-	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic. Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), Hydrogen iodide
Hazardous Polymerization	No information available.

Hazardous Reactions	None under normal processing.									
	11. Toxico	ological info	ormation							
Acute Toxicity										
Product Information Component Information	See actual entry in	See actual entry in RTECS for complete information.								
Toxicologically Synergistic Products	No information ava									
Delayed and immediate effects as w	ell as chronic effe	cts from short an	d long-term expos	<u>sure</u>						
Irritation	Irritating to eyes, re	espiratory system	and skin							
Sensitization	No information ava	ilable								
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.					
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico					
3,8-Diamino-5-[3-(diet hylmethylammonio)pro pyl]-6-phenylphenanthr idinium diiodide	Not listed	Not listed Not listed Not listed Not listed Not listed								
Mutagenic Effects	Mutagenic effects	have occured in m	icroorganisms. Pos	sible risk of irreve	rsible effects					
Reproductive Effects	No information ava	ilable.								
Developmental Effects	No information ava	ilable.								
Teratogenicity	No information ava	ilable.								
STOT - single exposure STOT - repeated exposure	Respiratory system None known	Respiratory system None known								
Aspiration hazard	No information ava	ilable								
Symptoms / effects,both acute and delayed	No information ava	ilable								
Endocrine Disruptor Information	No information ava	ilable								
Other Adverse Effects	The toxicological p	roperties have not	been fully investig	ated.						
	12. Ecolo	ogical infor	mation							
<u>Ecotoxicity</u> Do not empty into drains.										
Persistence and Degradability	No information ava	ilable								
Bioaccumulation/ Accumulation	No information ava	ilable.								
Mobility	No information ava	ilable.								
	13. Dispo	sal conside	erations							
Waste Disposal Methods	Chemical waste ge hazardous waste. national hazardous	enerators must def Chemical waste g	ermine whether a c enerators must als	o consult local, reg	gional, and					
	14. Tran	sport infor	nation							

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
3,8-Diamino-5-[3-(diethylmethylam		-	-	-
monio)propyl]-6-phenylphenanthri				
dinium diiodide				

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

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
3,8-Diamino-5-[3-(diethylmethylam monio)propyl]-6-phenylphenanthri	25535-16-4	-	-	247-081-0	-	-		-	Х	-
dinium diiodide										

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.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Security

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)
3,8-Diamino-5-[3-(diethylmeth ylammonio)propyl]-6-phenylph enanthridinium diiodide	25535-16-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Maior Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

	Qualifying Quantities for Major Accident Notification	Qualifying Quantities for Safety Report Requirements		
3,8-Diamino-5-[3-(diethylmeth ylammonio)propyl]-6-phenylph enanthridinium diiodide	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	23-Feb-2011 28-Dec-2021 28-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