

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision Number 3

1. Identification					
Product Name	1-Chloro-4-iodobenzene				
Cat No. :	AC146480000; AC146480250; AC146481000				
CAS-No	637-87-6				
Synonyms	No information available				
Recommended Use	Laboratory chemicals.				
	Jses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet Food, drug, pesticide or biocidal product use.				
<u>Company</u> Fisher Scientific	Acros Organics				
One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	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)

	Acute oral toxicity	Category 4
	Acute dermal toxicity	Category 4
	Acute Inhalation Toxicity - Dusts and Mists	Category 4
ŀ	Skin Corrosion/Irritation	Category 2
ŀ	Serious Eye Damage/Eye Irritation	Category 2
ŀ	Specific target organ toxicity (single exposure)	Category 3
ŀ	Target Organs - Respiratory system.	
- 1		

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation Harmful if inhaled May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

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

Store locked up

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 %
Benzene, 1-chloro-4-iodo-	637-87-6	99

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.		
Inhalation	Remove from exposure, lie down. Remove to fresh air.		

Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Alcohol resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	108 °C / 226.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen iodide. Hydrogen chloride gas.

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.

NFPA

Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required.Environmental PrecautionsSee Section 12 for additional Ecological Information.		ipment as required.	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.
	8. Exposure 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. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.
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	Light cream
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	52 - 55 °C / 125.6 - 131 °F
Boiling Point/Range	226 - 227 °C / 438.8 - 440.6 °F @ 760 mmHg
Flash Point	108 °C / 226.4 °F
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	C6 H4 CI I
Molecular Weight	238.46

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents, Oxidizing agent
Hazardous Decomposition Products	s Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen iodide, Hydrogen chloride gas
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information						
Acute Toxicity						
Product Information Component Information		No acute toxicity information is available for this product				
Toxicologically Syn Products		No information ava	ilable			
	liate effects as w	ell as chronic effects from short and long-term exposure				
Irritation		No information available				
Sensitization		No information ava	ilable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, 1-chloro-4-iodo-	637-87-6	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		No information available				
Endocrine Disruptor Information		No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea			
Benzene, 1-chloro-4-iodo-	Not listed		Not listed	EC50 = 1.65 mg/L 30 min				
				EC50 = 1.98 mg/L 15 min				
				EC50 = 2.17 mg/L 5 min				
Persistence and Degrada	Persistence and Degradability		No information available					
Bioaccumulation/ Accum Mobility	nulation	No information available. No information available.						
		13. Di	sposal consider	ations				
Waste Disposal Methods		Chemical waste generators must determine whether a discarded chemical is classified as 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	Not regulated			
DOT 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
Benzene, 1-chloro-4-iodo-	637-87-6	Х	ACTIVE	-

Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL	
Benzene, 1-chloro-4-iodo-	637-87-6	-	X	211-305-5	-	-	-	-	-	
U.S. Federal Regulations										
SARA 313	Not app	Not applicable								
SARA 311/312 Hazard Categorie	s See sec	See section 2 for more information								
CWA (Clean Water Act)	Not app	Not applicable								
Clean Air Act	Not app	Not applicable								
OSHA - Occupational Safety and Health Administration	Not app	Not applicable								
CERCLA	Not app	Not applicable								
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.								
U.S. State Right-to-Know Regulations	Not app	Not applicable								
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	on N N N	N N								
U.S. Department of Homeland Security	This pro	This product does not contain any DHS chemicals.								
Other International Regulations										
Mexico - Grade	No infor	No information available								

16. Other information					
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com				
Revision Date Print Date Revision Summary	18-Jan-2018 18-Jan-2018 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