

Safety Data Sheet 1100M00 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/11/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Chloro-2-iodoethane
CAS No	: 624-70-4
Product code	: 1100-M-00
Formula	: C2H4CII
Synonyms	: Ethylene chloroiodide; 2-Chloroethyl iodide; 2-Iodoethyl chloride
Other means of identification	: MFCD00041453
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the sat	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameriu T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
-	
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	or mixture
Classification (GHS-US) Flam. Liq. 3 H226 - Flammable liquid and	
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	n irritation
Flam. Liq. 3H226 -Flammable liquid and Skin Irrit. 2Skin Irrit. 2H315 -Causes skin irritationEye Irrit. 2AH319 -Causes serious eyeSTOT SE 3H335 -May cause respiratorFull text of H-phrases: see section 162.2.Label elements	n irritation
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye is STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n irritation ry irritation
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	$: \underbrace{ \underbrace{ \begin{array}{c} \\ \end{array} \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \\ $
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye is STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n irritation ry irritation
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation ry irritation : irritation : irritation : irritation : irritation : Warning : H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

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		 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 			
2.3.	Other hazards				
	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app					
SECT	ON 3: Composition/information	on in	aradiants		
3.1.	Substance		greatents		
Substan		Mono	-constituent		
	··· (ypc .	WONO			
Name			Product identifier	%	Classification (GHS-US)
1-Chlor (Main co	o-2-iodoethane nstituent)		(CAS No) 624-70-4	<= 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not app	icable				
SECT	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general :		se of accident or if you feel unwell, seek a possible). Move the affected personnel		
First-aid	measures after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid	measures after skin contact :	Wash	with plenty of soap and water. Get med	cal advice/atten	tion.
First-aid	measures after eye contact :		diately flush eyes thoroughly with water the and easy to do. Continue rinsing. Get		
First-aid	measures after ingestion :		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects,	both	acute and delayed		
Symptor	ns/injuries :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical at	tentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ON 5: Firefighting measures				<u></u>
5.1.	Extinguishing media				
			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subst				
5.2. Fire haz			nal decomposition generates: Carbon ox	ides Hydrogen	chloride. Hydrogen iodide
		Risk (of explosion if heated under confinement iners. May form flammable/explosive vap	. Use water spra	
5.3.	Advice for firefighters				
Firefight	ing instructions :	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
Protectio	on during firefighting :		gas tight chemically protective clothing i atus. For further information refer to sec		

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SECTION 6: Accidental release meas	SURAS
	uipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, well-ventilated area. Light sensitive.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: -16 °C
Freezing point	: No data available
Boiling point	: 61 - 32 °C (@ 30 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2.088 g/ml (@ 25 °C)
Molecular mass	: 190.411 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.556 (@ 20 °C)
SECTION 10: Stability and reactivit	У
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	torage conditions.
The product is stable at normal handling and s 10.3. Possibility of hazardous reactions	-
	-
10.3. Possibility of hazardous reactions No additional information available	-
10.3.Possibility of hazardous reactionsNo additional information available10.4.Conditions to avoid	-
10.3.Possibility of hazardous reactionsNo additional information available10.4.Conditions to avoidKeep away from heat, sparks and flame.	-
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 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid Keep away from heat, sparks and flame. 10.5. Incompatible materials Strong oxidizing agents. 10.6. Hazardous decomposition product Under normal conditions of storage and use, h fire, see Section 5. SECTION 11: Toxicological information on toxicological effect Acute toxicity 	ts azardous decomposition products should not be produced. Hazardous decomposition products in case of ation ts : Not classified

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

ECTION 12: Ecological information
2.1. Toxicity
o additional information available
2.2. Persistence and degradability
o additional information available
2.3. Bioaccumulative potential
o additional information available
2.4. Mobility in soil
o additional information available
2.5. Other adverse effects
o additional information available

SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
	luded from listing, on the United States Environmental Protection Agency Toxic
Substances Control Act (TSCA) inventory exce	pt for:

1-Chloro-2-iodoethane CAS No	624-70-4 100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

1-Chloro-2-iodoethane (624-70-4)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Eye Irrit.	2A	Serious eye damage/eye irritation Category 2A
Flam. Lie	q. 3	Flammable liquids Category 3
Skin Irrit	. 2	Skin corrosion/irritation Category 2
STOT S	E 3	Specific target organ toxicity (single exposure) Category 3
H226		Flammable liquid and vapor
H315		Causes skin irritation
H319		Causes serious eye irritation
H335		May cause respiratory irritation
NFPA health haz		 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 2 - Must be moderately heated or exposed to relatively high
		temperature before ignition can occur.
		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability		: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.