

1,2-Dichloro-4-iodoperfluorobutane Safety Data Sheet 1100N05 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/09/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,2-Dichloro-4-iodoperfluorobu	ane	
CAS No	: 678-13-7		
Product code	: 1100-N-05		
Formula	: C4Cl2F7l		
Synonyms	: 1,2-Dichloro-1,1,2,3,3,4,4-hept	afluoro-4-iodobutane	
Other means of identification	: MFCD00042241		
1.2. Relevant identified uses of the su	ostance or mixture and uses advis	ad against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances		
	Scientific research and develop	ment	
1.3. Details of the supplier of the safe	v data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309			
Alachua, FL 32615 - United States of America			
T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs.c	om		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	Account 10068)	
Emergency number	. (044) 323-4000 (3E Company	Account 10009)	
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or			
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin irrita	tion		
Eye Irrit. 2A H319 - Causes serious e			
STOT SE 3 H335 - May cause respi			
Aquatic Chronic 4 H413 - May cause long	asting harmful effects to aquatic life		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US)			
	· · ·		
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritation		
	H319 - Causes serious eye irri		
	H335 - May cause respiratory i H413 - May cause long lasting		
Precautionary statements (GHS-US)	: P261 - Avoid breathing fumes,		
Flecaulionary statements (GHS-05)	P264 - Wash skin thoroughly a		
	P271 - Use only outdoors or in		
	P273 - Avoid release to the en		
		protective clothing/eye protection/face protection	
	P302+P352 - If on skin: Wash	with plenty of soap and water re person to fresh air and keep comfortable for bro	oothing
		Rinse cautiously with water for several minutes. F	
	lenses, if present and easy to o	o. Continue rinsing	
	P312 - Call a POISON CENTE	R or doctor/physician if you feel unwell	
		supplemental first aid instructions on this label)	
		curs: Get medical advice/attention rsists: Get medical advice/attention	
		nated clothing and wash it before reuse	
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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards	P501 - Dispose of contents/container		
No additional information available			
2.4. Unknown acute toxicity (GHS	(IS)		
Not applicable	,		
SECTION 3: Composition/inforr	nation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,2-Dichloro-4-iodoperfluorobutane (Main constituent)	(CAS No) 678-13-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measu	res		
First-aid measures general	: In case of accident or if you feel unwe where possible). Move the affected pe		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/attenti		ing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.	Get medical advice/atte	ention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly wit present and easy to do. Continue rins		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get medical adv		an unconscious person. Rinse
4.2. Most important symptoms and	d effects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate m	edical attention and special treatment neede	d	
Treat symptomatically.			
SECTION 5: Firefighting measu	res		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from	he substance or mixture		
Fire hazard	: Thermal decomposition generates: Ca Hydrogen iodide.	arbon oxides. Hydroge	n chloride. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under conf containers.	inement. Use water sp	pray or fog for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fi	re remotely due to the	risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective of apparatus. For further information refe	lothing in combination	with self contained breathing
SECTION 6: Accidental release	measures		
6.1. Personal precautions, protect	ive equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. En vapor or spray.	sure adequate air vent	ilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personne Emergency procedures	I : Only qualified personnel equipped wit	h suitable protective e	quipment may intervene.

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6.1.2. For emergency responders	
Protective equipment : Do not attempt to take action without suitable protective equipment. For furthe 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.
6.2. Environmental precautions	
Avoid release to the environment. Notify author	rities if product enters sewers or public waters.
6.3. Methods and material for containn	nent 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	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good
Precautions for safe handling	ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
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, include	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/per	sonal 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.
Eye protection	: Chemical goggles or safety glasses. Face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
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
pН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
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

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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
Molecular mass	: 378.84 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

No additional information available

SECTIO	DN 10: Stability and reactivity	
10.1.	Reactivity	
No additio	onal information available	
10.2.	Chemical stability	
The produ	uct is stable at normal handling and storage conditions.	
10.3.	Possibility of hazardous reactions	
No additional information available		
10.4.	Conditions to avoid	
No additional information available		
10.5.	Incompatible materials	
Strong oxidizing agents.		
10.6.	Hazardous decomposition products	

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
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	

SECTION 12: Ecological information				
12.1.	Toxicity			
No addit	ional information available			
12.2.	Persistence and degradability			
No additional information available				

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	12.3.	Bioaccumulative potential		
No additional information available	No add	tional information available		
No additional information available 12.5. Other adverse effects	12.4.	Mobility in soil		
12.5. Other adverse effects	No addi	tional information available		
12.5. Other adverse effects				
	12.5.	Other adverse effects		

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

1,2-Dichloro-4-iodoperfluorobutane	CAS No 678-13-7	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

1,2-Dichloro-4-iodoperfluorobutane (678-13-7) Listed on the Japanese ISHL (Industrial Safety and Health Law)

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

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Full tex	t of H-phrases:		
	Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
	Skin Irrit. 2	Skin corrosion/irritation Category 2	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
	H335	May cause respiratory irritation	
	H413	May cause long lasting harmful effects to aquatic life	
NFPA	health hazard fire hazard reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
HMIS I	II Rating		
Health		: 0 Minimal Hazard - No significant risk to health	
Flammability		: 0 Minimal Hazard - Materials that will not burn	
Physica	al	: 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.