

Safety Data Sheet 1100K04 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/20/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	. Cubatanaa		
	: Substance		
Substance name	: lododifluoromethane : 1493-03-4		
CAS No			
Product code	: 1100-K-04		
Formula	: CHF2I		
Synonyms Other means of identification	: Difluoroiodomethane : MFCD03094113		
	substance or mixture and uses advi	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	pment	
1.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlat			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identifica	tion		
2.1. Classification of the substance			
Classification (GHS-US)			
STOT SE 3 H335 - May cause respira Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	$\langle \mathbf{O} \langle \mathbf{O} \rangle$		
	GHS04 GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H280 - Contains gas under pr H315 - Causes skin irritation H319 - Causes serious eye irr H335 - May cause respiratory	itation	
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wash P304+P340 - If inhaled: Remo P305+P351+P338 - If in eyes lenses, if present and easy to P312 - Call a POISON CENT P321 - Specific treatment (see P332+P313 - If skin irritation of P337+P313 - If eye irritation p P362+P364 - Take off contant	after handling n a well-ventilated area /protective clothing/eye protection/face protection with plenty of soap and water ove person to fresh air and keep comfortable for Rinse cautiously with water for several minutes	breathing s. Remove contac
40/06/0046			D 4
12/06/2016	EN (English US)	SDS ID: 1100K04	Page 1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P405 - Store locked up P410+P403 - Protect from sunlight. Store in a well-ventilated place P501 - Dispose of contents/container to an approved waste disposal plant **Other hazards** 2.3. No additional information available Unknown acute toxicity (GHS US) 2.4. Not applicable **SECTION 3: Composition/information on ingredients** 3.1. Substance : Mono-constituent Substance type Name **Product identifier** % **Classification (GHS-US)** lododifluoromethane (CAS No) 1493-03-4 <= 100 Liquefied gas, H280 (Main constituent) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Full text of H-phrases: see section 16 **Mixture** 3.2. Not applicable **SECTION 4: First aid measures** 4.1. **Description of first aid measures** : In case of accident or if you feel unwell, seek medical advice immediately (show the label First-aid measures general where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention. First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section Symptoms/injuries 2.2) and/or in section 11. Indication of any immediate medical attention and special treatment needed 4.3. Treat symptomatically. **SECTION 5: Firefighting measures** 5.1. **Extinguishing media**

Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Hydrogen iodide.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	

: Only qualified personnel equipped with suitable protective equipment may intervene.

Emergency procedures

Respiratory protection

Other information

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 o ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	inment 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	16
7.1. Precautions for safe handling	
Additional hazards when processed	Pressurized container: Do not pierce or burn, even after use. Close valve after each use and when empty.
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, gas, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Safe handling of the gas receptacle	: Securely chain cylinders when in use and protect against physical damage.
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, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C 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. Light sensitive.
SECTION & Evenesure controlo/	
SECTION 8: Exposure controls/g 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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating gases may be released.
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.

- : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
- : Safety shoes. 29 CFR 1910.136: Foot Protection.

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		
12/06/2016	EN (English US)	SDS ID: 1100K04	3/6

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

e e ,	3 ·	
Melting point	:	-122 °C
Freezing point	:	No data available
Boiling point	:	21.6 °C
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	:	2.4 g/ml (@ 20 °C)
Molecular mass	:	177.92 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

Other information 9.2.

No additional information available

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

12/06/2016

SECTION 10: Stability and reactivity			
10.1. Reactivity	10.1. Reactivity		
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and	storage conditions.		
10.3. Possibility of hazardous reaction	S		
No additional information available			
10.4. Conditions to avoid			
Protect from sunlight. Do not expose to temp	eratures exceeding 50 °C. Keep away from heat, sparks and flame.		
10.5. Incompatible materials			
Alkali metals. Finely divided metals (Al, Mg, Z	n). Strong oxidizing agents.		
10.6. Hazardous decomposition produ	cts		
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 inform	nation		
11.1. Information on toxicological effe	cts		
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		

: May cause respiratory irritation.

: Not classified

EN (English US)

4/6

SDS ID: 1100K04

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard

: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

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.	
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport informat	ion	

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 ntral Ant (TCCA) inve Cubat

Iododifluoromethane CAS No 1493-03-4 100%		Substances Control Act (TSCA) Inventory except for.		
	Γ	Iododifluoromethane	$(\Delta S N_0 1493 034$	100%

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

No additional information available

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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

Full text of	H-phrases:
--------------	------------

ext of fi-philases.	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Liquefied gas	Gases under pressure Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard

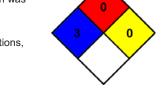
NFPA fire hazard

NFPA reactivity

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 0 - Materials that will not burn.

: 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	: 0 Minimal Hazard - Materials that will not burn
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.