

Safety Data Sheet 1100K42 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/06/2020 Version: 1.0

CECTION 4. Identification			
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-lodo-1,1,1,4,4,4-hexafluorob	utane	
CAS No	: 453-39-4		
Product code	: 1100-K-42		
Formula	: C4H3F6I		
Other means of identification	: MFCD08458098		
1.2. Relevant identified uses of the	substance or mixture and uses advis	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	oment	
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 Ame T (386) 462-0788 - F (386) 462-7097	rica		
nfo@synquestlabs.com - www.synquestla	<u>bs.com</u>		
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)			
Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Eye Irrit. 2A H319	 Harmful if inhaled Causes skin irritation Causes serious eye irritation 		
	- May cause drowsiness or dizziness		
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 H332 - Harmful if inhaled H336 - May cause drowsiness 		
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 o P312 - Call a POISON CENTE P321 - Specific treatment (see P332+P313 - If skin irritation o P337+P313 - If eye irritation p P362+P364 - Take off contami	fter handling a well-ventilated area protective clothing/eye protection/face protectio with plenty of soap and water /e person to fresh air and keep comfortable for I Rinse cautiously with water for several minutes.	preathing
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	P501 - Dispose of contents/container t	o an approved waste	disposal plant
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Iodo-1,1,1,4,4,4-hexafluorobutane (Main constituent)	(CAS No) 453-39-4	<= 100	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
Full text of H-phrases: see section 16		· · ·	
.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwel where possible). Move the affected pe	,	
First-aid measures after inhalation	: Remove person to fresh air and keep or respiration. Get immediate medical ad		hing. If not breathing, give artificial
irst-aid measures after skin contact	: Wash with plenty of soap and water. G		
ïrst-aid measures after eye contact	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsi		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get immediate n		
I.2. Most important symptoms and effect	s, both acute and delayed		
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are descr	ibed in the labelling (see section
Indication of any immediate medical	attention and special treatment needed	d	
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
.2. Special hazards arising from the sub	stance or mixture		
Fire hazard	: Thermal decomposition generates: Ca	rbon oxides. Hydroge	en fluoride. Hydrogen iodide.
Explosion hazard	: Risk of explosion if heated under confi containers.	nement. Use water s	pray or fog for cooling exposed
.3. Advice for firefighters			
irefighting instructions	: In case of fire: Evacuate area. Fight fir	•	
Protection during firefighting	: Wear gas tight chemically protective cl apparatus. For further information refe		
SECTION 6: Accidental release meas	ures		
6.1. Personal precautions, protective equ	ipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ens vapor or spray.	sure adequate air ven	tilation. Do not breathe gas, fumes,
5.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with	suitable protectivo c	auinment may intervene
Inergency procedures			quipment may intervene.

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6.1.2.	For emergency responders	
Protect	ive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid r	elease to the environment. Notify authorit	es if product enters sewers or public waters.
6.3.	Methods and material for containme	nt and cleaning up
For cor	itainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Method	Is 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 in	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions 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.
Hygien	e 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	g any incompatibilities
Technic	cal measures	: Comply with applicable regulations.
Storage	econditions	: Keep container closed when not in use.
Incomp	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	e temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage	e 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.

SE	ECTION 9: Physic	cal and chemical properties	
9.1	. Information or	n basic physical and chemical properties	
Ph	ysical state	: Liquid	
Co	lor	: No data available	
Od	or	: No data available	
Od	or threshold	: No data available	
pН		: No data available	
Me	Iting point	: No data available	
Fre	ezing point	: No data available	
Во	iling point	: 87.5 - 88 °C	
Fla	sh point	: No data available	

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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
Molecular mass	: 291.9615 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	

Other information 9.2.

Refractive index

: 1.371 (@ 25 °C)

SECTION 10: Stability and 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 reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong acids. Strong bases. 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	: Inhalation:dust,mist: Harmful if inhaled.
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 drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological inf	ormation		
12.1. Toxicity			
No additional information available			
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12.2.	Persistence and degradability		
No addit	tional information available		
12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
No addi	tional information available		

13.1. Waste t	Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste of	lisposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additior	al information	: Recycle the material as far as possible.

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:

2-lodo-1,1,1,4,4-hexafluorobutane CAS No 453-39-4 100%
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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

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

SECTION 16: Other information

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Full text of H-phrases:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
NFPA health hazard NFPA fire hazard NFPA reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.