

Safety Data Sheet 2H10K06 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/03/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1-Fluoro-3,3-dimethyl-1,2-be	nziodoxole	
CAS No	: 1391728-13-4		
Product code	: 2H10-K-06		
Formula	: C9H10FIO		
Other means of identification	: MFCD28397076		
1.2. Relevant identified uses of the sub	ostance or mixture and uses adv	ised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve		
1.3. Details of the supplier of the safety	y 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@synquestlabs.com - www.synquestlabs.com	<u>om</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compar	y - Account 10069)	
SECTION 2. Horord(a) identification	•		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or	mixture		
Acute Tox. 4 (Oral)H302 - Harmful if sAcute Tox. 3 (Dermal)H311 - Toxic in coAcute Tox. 3 (Inhalation)H311 - Toxic if inhSkin Irrit. 2H315 - Causes skiEye Dam. 1H318 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	ntact with skin aled in irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS02 GHS05	GHS06 GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H228 - Flammable solid H302 - Harmful if swallowed H311+H331 - Toxic in conta H315 - Causes skin irritation H318 - Causes serious eye H335 - May cause respirator	lamage	
Precautionary statements (GHS-US)	 P210 - Keep away from hea P240 - Ground/bond contain P241 - Use explosion-proof P261 - Avoid breathing dust P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glow P301+P312 - If swallowed: 0 	/sparks/open flames/hot surfaces. No smoking er and receiving equipment electrical/ventilating/lighting equipment mist, spray rafter handling moke when using this product	

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		lenses, if present and easy to P310 - Immediately call a POI P311 - Call a POISON CENTE P321 - Specific treatment (see P330 - Rinse mouth P332+P313 - If skin irritation o P361 - Take off immediately a P362+P364 - Take off contam P363 - Wash contaminated clo	Rinse cautiously with water fr do. Continue rinsing SON CENTER or doctor/ physican supplemental first aid instruct ccurs: Get medical advice/att I contaminated clothing inated clothing and wash it be thing before reuse se dry sand, dry chemical or entilated place. Keep contained	or several minutes. Remove contact sician tions on this label) ention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3.	Other hazards			
Other ha	zards not contributing to the tion	: Heating may cause violent cor	nbustion or explosion. Avoid s	shock and friction.
2.4.	Unknown acute toxicity (GHS US)			
Not appli				
	ON 3: Composition/informatio	n on ingredients		
3.1.	Substance			
Substanc		: Mono-constituent		
Name		Product identifier	%	Classification (GHS-US)
	-3,3-dimethyl-1,2-benziodoxole stituent)	(CAS No) 1391728-13-4	<= 100	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318
Full text (of H-phrases: see section 16			STOT SE 3, H335
3.2.	Mixture			
Not appli				
	ON 4: First aid measures			
4.1.	Description of first aid measures			
	measures general	: In case of accident or if you fe where possible). Move the affe		
First-aid	measures after inhalation	: Remove person to fresh air an respiration. Get immediate me		ning. If not breathing, give artificial
First-aid	measures after skin contact	: Wash with plenty of soap and	water. Get immediate medica	l advice/attention.
	measures after eye contact	present and easy to do. Contin	ue rinsing. Get immediate me	
-irst-aid	measures after ingestion	: Do NOT induce vomiting. New mouth out with water. Get imm		
4.2.	Most important symptoms and effect			
Symptom	ns/injuries	: The most important known syr 2.2) and/or in section 11.	nptoms and effects are descr	ibed in the labelling (see section
4.3.	Indication of any immediate medica	I attention and special treatment	needed	
Freat syn	nptomatically.			
SECTIO	ON 5: Firefighting measures			
5.1.	Extinguishing media			
Suitable	extinguishing media	: Alcohol resistant foam. Carbon appropriate for surrounding fire		spray. Use extinguishing media
5.2.	Special hazards arising from the su	bstance or mixture		
Fire haza		: Thermal decomposition generation	ates: Carbon oxides. Hydroge	en fluoride. Hydrogen iodide.
Explosior	n hazard	: When mixed with air and expo explode if confined.	sed to an ignition source, dus	t may burn in the open air or
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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 rele	ase measures
6.1. Personal precautions, pre	otective equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency perso	onnel
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responde	rs
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	: Avoid raising dust. When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Eliminate every possible source of ignition.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3.	Methods and material for containment and cleaning up			
For cont	ainment	: Stop leak if safe to do so.		
Methods	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
Other in	formation	: 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	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.
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 dust, mist, spray. 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. Heat sensitive. Air sensitive. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area. Air 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.

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Other information

: Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemi	cal properties
9.1. Information on basic physical	and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: 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
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	: 280.078 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	
SECTION 10: Stability and react	ivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling ar	nd storage conditions.
10.3. Possibility of hazardous reacti	-
Heating may cause a fire or explosion.	010
10.4. Conditions to avoid Keep away from heat, sparks and flame. Av	usid shock and frigtion. Maisture
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition pro	ducts
Under normal conditions of storage and use fire, see Section 5.	e, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological infor	mation
11.1. Information on toxicological ef	
A quite toxicity	· Oral Harmful if availated Darmal Tavia in contact with all a labolation. Tavia if it is to b

Acute toxicity

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: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

1-Fluoro-3,3-dimethyl-1,2-benziodoxole (1391728-13-4)				
ATE US (oral)	500.000 mg/kg body weight			
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1-Fluoro-3,3-dimethyl-1,2-benziodoxole (139	1-Fluoro-3,3-dimethyl-1,2-benziodoxole (1391728-13-4)		
ATE US (dermal)	300.000 mg/kg body weight		
ATE US (gases)	700.000 ppmV/4h		
ATE US (vapors)	3.000 mg/l/4h		
ATE US (dust, mist)	0.500 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye damage.		
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 add	itiona	l inform	ation a	iva	ilable)			

12.2.	Persistence and degradability				
No add	No additional information available				
12.3.	Bioaccumulative potential				
No add	litional information available				
12.4.	Mobility in soil				
No add	No additional information available				
12.5.	Other adverse effects				

No additional 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.			

: G - Identifies PSN requiring a technical name

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT	
Transport document description	: UN1325 Flammable solids, organic, n.o.s., 4.1, III
UN-No.(DOT)	: UN1325
Proper Shipping Name (DOT)	: Flammable solids, organic, n.o.s.
Transport hazard class(es) (DOT)	: 4.1 - Class 4.1 - Flammable Solid 49 CFR 173.124
Hazard labels (DOT)	: 4.1 - Flammable solid

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

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: III - Minor Danger

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DOT Special Provisions (49 CFR 172.102)	 A1 - Single packaging are not permitted on passenger aircraft. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 151
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	4005
UN-No. (IMDG) Broper Shipping Name (IMDG)	: 1325 : El Ammari e soludi organicon o s
Proper Shipping Name (IMDG) Class (IMDG)	 FLAMMABLE SOLID, ORGANIC, N.O.S. 4.1 - Flammable solids, self-reactive substance and solid desensitized explosives
Packing group (IMDG)	 III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1325
Proper Shipping Name (IATA)	: Flammable solid, organic, n.o.s.
Class (IATA)	: 4.1 - Flammable solids
Packing group (IATA)	: III - Minor Danger

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:

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1-Fluoro-3,3-dimethyl-1,2-benziodoxole	CAS No 1391728-13-4	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

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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

Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Sol. 1	Flammable solids Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 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	 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.