

Safety Data Sheet M054201 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/09/2016 Version: 1.0

1.1. Identification					
Product form	: Substance				
Substance name	: Xenon difluoride				
CAS No	: 13709-36-9				
Product code	: M054-2-01				
Formula	: F2Xe				
Other means of identification	: MFCD00040538				
1.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet				
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs					
1.4. Emergency telephone number					
Emergency number	: (844) 523-4086 (3E Company - Account 10069)				
SECTION 2: Hazard(s) identification	on				
2.1. Classification of the substance of					
Classification (GHS-US)					
Acute Tox. 3 (Oral) H301 - Toxic if s Acute Tox. 1 (Inhalation) H330 - Fatal if ir					
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causes	wallowed				
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 16	wallowed haled severe skin burns and eye damage serious eye damage				
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 162.2.Label elements	wallowed haled severe skin burns and eye damage serious eye damage				
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	wallowed haled severe skin burns and eye damage serious eye damage				
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 162.2.Label elements	wallowed haled severe skin burns and eye damage serious eye damage				
Acute Tox. 3 (Oral)H301 - Toxic if sAcute Tox. 1 (Inhalation)H330 - Fatal if irSkin Corr. 1BH314 - Causes sEye Dam. 1H318 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US)	swallowed haled severe skin burns and eye damage serious eye damage se respiratory irritation				

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

		 skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician P320 - Specific treatment is urgent (see supplemental first aid instructions on this label) P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P363 - Wash contaminated clothing 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 container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 			
2.3.	Other hazards				
	onal information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli					
	ON 3: Composition/information	on in	aradiants		
3.1.			greatents		
	Substance	Mono	-constituent		
Substand		IVIONO			
Name			Product identifier	%	Classification (GHS-US)
Xenon di (Main con			(CAS No) 13709-36-9	<= 100	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of	of H-phrases: see section 16				
3.2.	Mixture				
Not appli	cable				
SECTIO	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid	measures after inhalation :		ve person to fresh air and keep comforta ation. Get immediate medical advice/atte		ng. If not breathing, give artificial
First-aid	measures after skin contact :	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. Get immediate medical advice/attention.			
First-aid	measures after eye contact :		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
First-aid	measures after ingestion :		DT induce vomiting. Never give anything nout with water. Get immediate medical		
4.2.	Most important symptoms and effects	, both a	acute and delayed		
Symptom	ns/injuries :		nost important known symptoms and effe nd/or in section 11.	ects are describ	ed in the labelling (see section
Symptom	ns/injuries after inhalation :		ial is destructive to tissue of the mucuous	s membranes a	and upper respiratory tract. Cough,
4.3.	Indication of any immediate medical at	ttentio	n and special treatment needed		
Treat syn	nptomatically. Absorption of excessive F- on a second second second second second second second second second s			alcemia, interfe	erence with various metabolic functions
SECTIO	ON 5: Firefighting measures				
5.1.	Extinguishing media				
		Alcoh	ol resistant foam. Carbon dioxide. Dry po	wder. Water s	prav. Use extinguishing media
Sunable	Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.			stay. Soo oxinguishing moula	
5.2.	Special hazards arising from the subst				
	5.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Hydrogen fluoride.				
40/00/004					

5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
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 me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
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".
6.2. Environmental precautions	
Avoid release to the environment. Notify autho	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.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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	
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.
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, inclue	ling any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area. : Do not store in glass.
Special rules on packaging	. Do not store in glass.
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	. Ensure good ventilation of the work station. Emorgonou ave wash fountains and asfety showers
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.

r	: No data available

Safety Data Sheet

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

Odor	:	No data available
Odor threshold	:	No data available
рН	:	No data available
Melting point	:	129 - 130 °C
Freezing point	:	No data available
Boiling point	:	No data available
Critical temperature	:	358.0 °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	:	3.8 mm Hg (@ 25 °C)
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Specific gravity / density	:	4.32 g/ml (@ 25 °C)
Molecular mass	:	169.29 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
0.0 Others information		

9.2. Other information

No additional information available

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. Moisture.
10.5. Incompatible materials
Glass. Metals. Organic materials.
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

: Oral: Toxic if swallowed. Inhalation: Fatal if inhaled.

Xenon difluoride (13709-36-9)				
ATE US (oral) 100.000 mg/kg body weight				
ATE US (gases) 10.000 ppmV/4h				
ATE US (vapors) 0.050 mg/l/4h				
ATE US (dust, mist) 0.005 mg/l/4h				

Safety Data Sheet

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

Skin corrosion/irritation : Causes severe skin burns and eye damage.	
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
Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation	 Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys). Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No additi	ional information available
12.2.	Persistence and degradability
No additi	ional information available
12.3.	Bioaccumulative potential
No additi	ional information available
12.4.	Mobility in soil
No additi	ional information available
12.5.	Other adverse effects
No odditi	ional information available

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.			
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 : UN3087 Oxidizing solid, toxic, n.o.s., 5.1, II

- : UN3087
- : Oxidizing solid, toxic, n.o.s.
- : 5.1 Class 5.1 Oxidizer 49 CFR 173.128
- : 5.1 Oxidizer 6.1 - Poison



- : II Medium Danger
- : 212
- : 242

: G - Identifies PSN requiring a technical name

Safety Data Sheet

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

DOT Packaging Exceptions (49 CFR 173.xx) : 152 DOT Quantity Limitations Passenger aircraft/rail : 5 kg (49 CFR 173.27) : 5 kg DOT Quantity Limitations Cargo aircraft only (49) : 25 kg CFR 175.75) : 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 peach 3 m of overall vessel length; and (ii) 'On deck only' on passenger, or one passenger peach 3 m of overall vessel length; and (ii) 'On deck only' on passenger vessels is which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. DOT Vessel Stowage Other : 56 - Stow "separated from" ammonium compounds,58 - Stow "separated from" cyanides,95 - Stow "separated from" powdered metal Other information : No supplementary information available. Transport by sea	OOT Special Provisions (49 CFR 172.102)	 62 - Oxygen generators (see §171.8 of this subchapter) are not authorized for transportation under this entry. IB6 - 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). Additional Requirement: Composite IBCs 11HZ2 and 21HZ2 may not be used when the hazardous materials being transported may become liquid during transport. IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. T3 - 2.65 178.274(d)(2) Normal	
DOT Quantity Limitations Passenger aircraft/riall : 5 kg (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49) : 25 kg DOT Quantity Limitations Cargo aircraft only (49) : 25 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. DOT Vessel Stowage Other : 56 - Stow "separated from" ammonium compounds,58 - Stow "separated from" yowdered metal Other information : No supplementary information available. TDG No additional information available Transport by sea : 3087 Proper Shipping Name (IMDG) : 5.1 - Oxidizer Packing group (IMDG) : 11 - substances presenting medium danger Air transport : 10N-No. (IATA) UN-No. (IATA) : 0xidizing solid, toxic, n.o.s. Class (IATA) : 5.1 - Oxidizing Substances	OOT Packaging Exceptions (49 CFR 173.xxx)		
CFR 175.75) 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. DOT Vessel Stowage Other : 56 - Stow "separated from" ammonium compounds,58 - Stow "separated from" cyanides,95 - Stow "separated from" foodstuffs,106 - Stow "separated from" powdered metal Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) VN-No. (IMDG) : 3087 Proper Shipping Name (IMDG) : 51 - Oxidizer Packing group (IMDG) : 11 - substances presenting medium danger Air transport : UN-No. (IATA) : 3087 Proper Shipping Name (IATA) : 0xidizing solid, toxic, n.o.s.	OOT Quantity Limitations Passenger aircraft/ra	l : 5 kg	
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.DOT Vessel Stowage Other: 56 - Stow "separated from" ammonium compounds,58 - Stow "separated from" cyanides,95 - Stow "separated from" foodstuffs,106 - Stow "separated from" powdered metalOther information: No supplementary information available.TDG No additional information available		9 : 25 kg	
Stow "separated from" foodstuffs, 106 - Stow "separated from" powdered metal Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 3087 Proper Shipping Name (IMDG) : OXIDIZING SOLID, TOXIC, N.O.S. Class (IMDG) : 5.1 - Oxidizer Packing group (IMDG) : II - substances presenting medium danger Air transport UN-No. (IATA) Proper Shipping Name (IATA) : Oxidizing solid, toxic, n.o.s. Class (IATA) : 5.1 - Oxidizen	OOT Vessel Stowage Location	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	
TDG No additional information available Transport by sea UN-No. (IMDG) : 3087 Proper Shipping Name (IMDG) : OXIDIZING SOLID, TOXIC, N.O.S. Class (IMDG) : 5.1 - Oxidizer Packing group (IMDG) : II - substances presenting medium danger Air transport UN-No. (IATA) Proper Shipping Name (IATA) : 3087 Proper Shipping Name (IATA) : Oxidizing solid, toxic, n.o.s. Class (IATA) : 5.1 - Oxidizing Substances	OOT Vessel Stowage Other		
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Class (IMDG) : 5.1 - Oxidizer Packing group (IMDG) : II - substances presenting medium danger Air transport	JN-No. (IMDG)	: 3087	
Packing group (IMDG) : II - substances presenting medium danger Air transport UN-No. (IATA) UN-No. (IATA) : 3087 Proper Shipping Name (IATA) : Oxidizing solid, toxic, n.o.s. Class (IATA) : 5.1 - Oxidizing Substances	Proper Shipping Name (IMDG)	: OXIDIZING SOLID, TOXIC, N.O.S.	
Air transport UN-No. (IATA) : 3087 Proper Shipping Name (IATA) : Oxidizing solid, toxic, n.o.s. Class (IATA) : 5.1 - Oxidizing Substances	Class (IMDG)		
UN-No. (IATA): 3087Proper Shipping Name (IATA): Oxidizing solid, toxic, n.o.s.Class (IATA): 5.1 - Oxidizing Substances	Packing group (IMDG)	: II - substances presenting medium danger	
Proper Shipping Name (IATA): Oxidizing solid, toxic, n.o.s.Class (IATA): 5.1 - Oxidizing Substances	Air transport		
Class (IATA) : 5.1 - Oxidizing Substances		: 3087	
		: Oxidizing solid, toxic, n.o.s.	
Packing group (IATA) : II - Medium Danger		: 5.1 - Oxidizing Substances	
	Packing group (IATA)	: II - Medium Danger	

15.1. US Federal regulations

Xenon difluoride (13709-36-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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.

Safety Data Sheet

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

15.2. International regulations

CANADA

Xenon difluoride (13709-36-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Xenon difluoride (13709-36-9)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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:

1 011 107	t of ff philosos.			
	Acute Tox. 1 (Inhalation)		Acute toxicity (inhalation) Category 1	
	Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3	
	Eye Dam. 1		Serious eye damage/eye irritation Category 1	
	Ox. Sol. 2		Oxidizing solids Category 2	
	Skin Corr. 1B		Skin corrosion/irritation Category 1B	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H272		May intensify fire; oxidizer	
	H301		Toxic if swallowed	
	H314		Causes severe skin burns and eye damage	
	H318		Causes serious eye damage	
	H330		Fatal if inhaled	
	H335		May cause respiratory irritation	
NFPA I			I cause serious temporary or igh prompt medical attention was	
NFPA f	ire hazard	: 0 - Materials that will not b	burn.	
			I readily undergo violent detonate. Also: may react y form potentially explosive	
•		: OX - This denotes an oxic greatly increase the rate of		
HMIS I	II Rating			
Health	Health : 3 Serious Hazard - Maj given		or injury likely unless prompt action is taken and medical treatment is	

Flammability Physical : 0 Minimal Hazard - Materials that will not burn

: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

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.