

Safety Data Sheet 1300A12 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/04/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (E/Z)-1,2-Dibromo-1,2-difluoroethylene
CAS No	: 359-21-7
Product code	: 1300-A-12
Formula	: C2Br2F2
Other means of identification	: MFCD08458182
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)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir	rritation
STOT SE 3 H335 - May cause respiratory	
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 irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	: P261 - Avoid breathing fumes, mist, spray, vapors
	P264 - Wash skin thoroughly after handling
	P271 - Use only outdoors or in a well-ventilated area
	P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water
	P304+P302 - 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
	P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)
	P32+P313 - If skin irritation occurs: Get medical advice/attention
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P362+P364 - Take off contaminated clothing and wash it before reuse
	P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	n on in	gredients		
3.1. Substance				
Substance type	: Mono	constituent		
Name		Product identifier	%	Classification (GHS-US)
(E/Z)-1,2-Dibromo-1,2-difluoroethylene (Main constituent)		(CAS No) 359-21-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	where	se of accident or if you feel unwell, seek to possible). Move the affected personnel	away from the o	contaminated area.
First-aid measures after inhalation	respii	ove person to fresh air and keep comforta ration. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get med		
First-aid measures after eye contact	prese	diately flush eyes thoroughly with water int and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything nout with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effect	s, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	bromide. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	hting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			
Protection during firefighting		gas tight chemically protective clothing i ratus. For further information refer to sec		
SECTION 6: Accidental release meas	ures			
6.1. Personal precautions, protective equ		and emergency procedures		
General measures	: Evac	uate unnecessary personnel. Ensure ade or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	lipment may intervene.
6.1.2. For emergency responders				
Protective equipment	otective 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/v level.	vapor heavier than air. May accumulate in	n confined spac	es, particularly at or below ground

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6.2. Environmental precautions				
Avoid release to the environment. Notify authoritie	Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
6.3. Methods and material for containmer	Methods and material for containment 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				
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 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, including	g 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. 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.

SECTION 9: Physical and chemical properties

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Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: 71.8 °C		
Freezing point	: No data available		
Melting point	: No data available		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Liquid		
9.1. Information on basic physical and	d chemical properties		

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 221.83 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 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

Alkali metals. Finely divided metals (Al, Mg, Zn). 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	: 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

SECT	ON 12: Ecological information			
12.1.	Toxicity			
No addi	ional information available			
12.2.	Persistence and degradability			
No addi	ional information available			
12.3.	Bioaccumulative potential			
No addi	No additional information available			

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	ations		
13.1. Waste treatment methods			
Waste treatment methods			an afterburner and a flue gas scrubber.
Waste disposal recommendations			censed collector's sorting instructions.
Additional information	: Recycle the mat	terial 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	ation		
15.1. US Federal regulations			
All components of this product are listed, Substances Control Act (TSCA) inventory		on the United States Environmental	Protection Agency Toxic
(E/Z)-1,2-Dibromo-1,2-difluoroethylene		CAS No 359-21-7	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

SECTION 16: Other information

Full text of H-phrases:

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

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 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.