

Safety Data Sheet 1300B09 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	: 1,2-Dibromo-3,3,3-trifluoropropene
CAS No	: 431-22-1
Product code	: 1300-B-09
Formula	: C3HBr2F3
Other means of identification	: MFCD00042236
1.2. Relevant identified uses of the subst	ance 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 safety d	ata 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	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation	
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+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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+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 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

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

cording to Federal Register / Vol. 77, No. 58 / Mol 2.3. Other hazards	nday, March 26,	2012 / Rules and Regulations		
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable	- /			
SECTION 3: Composition/information	ation on ing	gredients		
3.1. Substance				
Substance type	: Mono	constituent		
Name		Product identifier	%	Classification (GHS-US)
1,2-Dibromo-3,3,3-trifluoropropene (Main constituent)		(CAS No) 431-22-1	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16	I		I	,
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure				
First-aid measures general	where	e of accident or if you feel unwell, possible). Move the affected per	sonnel away from the	contaminated area.
First-aid measures after inhalation	respira	ve person to fresh air and keep c ation. Get medical advice/attentio	n.	
First-aid measures after skin contact		with plenty of soap and water. Ge		
First-aid measures after eye contact	prese	nt and easy to do. Continue rinsin	g. Get medical advice	
First-aid measures after ingestion		OT induce vomiting. Never give ar out with water. Get medical advi		n unconscious person. Rinse
4.2. Most important symptoms and	effects, both a	cute and delayed		
Symptoms/injuries		ost important known symptoms a nd/or in section 11.	and effects are describ	ed in the labelling (see section
4.3. Indication of any immediate me	dical attentior	and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measure	es			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. oriate for surrounding fire.	Dry powder. Water sp	pray. Use extinguishing media
5.2. Special hazards arising from the	e substance o	r mixture		
Fire hazard		al decomposition generates: Car	, ,	, ,
Explosion hazard	: Risk c contai	f explosion if heated under confin ners.	ement. Use water spr	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In cas	e of fire: Evacuate area. Fight fire	e remotely due to the r	isk of explosion.
Protection during firefighting		gas tight chemically protective clo atus. For further information refer		
SECTION 6: Accidental release n				
6.1. Personal precautions, protectiv			In adaguata circura (1	ation. Do not broothe man from
General measures		ate unnecessary personnel. Ensu or spray.	are adequate air ventil	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only o	ualified personnel equipped with	suitable protective eq	uipment may intervene.
6.1.2. For emergency responders				
Protective equipment		t attempt to take action without su o section 8: "Exposure controls/p		oment. For further information
Emergency procedures			•	ces, particularly at or below ground
12/06/2016	EN (Eng	lish US)	SDS ID: 1300B09	9 2/6

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

6.2. Environmental precautions			
Avoid release to the environment.	Notify authorities if product enters sewers or public waters.		
6.3. Methods and material f	or 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 sec	tions		
No additional information available			
SECTION 7: Handling and	storage		
7.1. Precautions for safe ha			
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 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 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
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 115.8 °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
12/06/2016	ENI (English LIS)

Safety Data Sheet

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

Relative density: No data availableRelative vapor density at 20 °C: No data availableSpecific gravity / density: 2.121 g/ml (@ 24 °C)Molecular mass: 253.84 g/molSolubility: No data availableLog Pow: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableViscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available9.2.Other informationRefractive index: 1.4281 (@ 10 °C)		
Specific gravity / density: 2.121 g/ml (@ 24 °C)Molecular mass: 253.84 g/molSolubility: No data availableLog Pow: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableViscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available9.2.Other information	Relative density	: No data available
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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	Molecular mass	: 253.84 g/mol
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Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available 9.2. Other information	Auto-ignition temperature	: No data available
Viscosity, kinematic : No data available Viscosity, dynamic : No data available 9.2. Other information	Decomposition temperature	: No data available
Viscosity, dynamic : No data available 9.2. Other information	Viscosity	: No data available
9.2. Other information	Viscosity, kinematic	: No data available
	Viscosity, dynamic	: No data available
	9.2. Other information	
		: 1.4281 (@ 10 °C)

SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
No addi	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.

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	

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available

Safety Data Sheet

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal conside	rations		
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an	authorized incinerator equippe	ed with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of con	tents/container in accordance	with licensed collector's sorting instructions.
Additional information	: Recycle the ma	aterial as far as possible.	
SECTION 14: Transport informa	tion		
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 inform	ation		
15.1. US Federal regulations			
All components of this product are listed Substances Control Act (TSCA) inventor		on the United States Environr	nental Protection Agency Toxic
1,2-Dibromo-3,3,3-trifluoropropene		CAS No 431-22-1	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

Safety Data Sheet

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

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.