

2,4-Dibromo-6-fluorophenol

Safety Data Sheet 2601B62 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/29/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,4-Dibromo-6-fluorophenol		
CAS No	: 576-86-3		
Product code	: 2601-B-62		
Formula	: C6H3Br2FO		
Other means of identification	: MFCD00042233		
1.2. Relevant identified uses of the s	substance or mixture and uses advise	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develop	ment	
1.3. Details of the supplier of the saf	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) identificati	on		
2.1. Classification of the substance of			
Classification (GHS-US)			
Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS06 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye irrit H335 - May cause respiratory i		
Precautionary statements (GHS-US)	P301+P310 - If swallowed: Imn P302+P352 - If on skin: Wash P304+P340 - If inhaled: Remov P305+P351+P338 - If in eyes: lenses, if present and easy to c P312 - Call a POISON CENTE P321 - Specific treatment (see P330 - Rinse mouth P332+P313 - If skin irritation of	ter handling ke when using this product a well-ventilated area protective clothing/eye protection/face protecti ediately call a poison center/doctor/ vith plenty of soap and water e person to fresh air and keep comfortable for Rinse cautiously with water for several minute	r breathing s. Remove contact

Safety Data Sheet

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

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

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	: 1/10	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,4-Dibromo-6-fluorophenol (Main constituent)		(CAS No) 576-86-3	<= 100	Acute Tox. 3 (Oral), H301 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 measure	s			
4.1. Description of first aid mea	sures			
First-aid measures general		ase of accident or if you feel unwel ere possible). Move the affected pe		
First-aid measures after inhalation		move person to fresh air and keep oppresention. Get immediate medical ad		ning. If not breathing, give artificial
First-aid measures after skin contact	: Wa	sh with plenty of soap and water.	et immediate medica	al advice/attention.
First-aid measures after eye contact		nediately flush eyes thoroughly with sent and easy to do. Continue rinsi		minutes. Remove contact lenses, i edical advice/attention.
First-aid measures after ingestion		NOT induce vomiting. Never give a uth out with water. Get immediate r		
4.2. Most important symptoms a	and effects, bot	h acute and delayed		
Symptoms/injuries		e most important known symptoms) and/or in section 11.	and effects are descr	ibed in the labelling (see section
4.3. Indication of any immediate	medical attent	ion and special treatment neede	ł	
Treat symptomatically.				
SECTION 5: Firefighting meas	sures			
5.1. Extinguishing media				
Suitable extinguishing media		ohol resistant foam. Carbon dioxide propriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from	n the substanc	e or mixture		
Fire hazard		ermal decomposition generates: Ca	rbon oxides. Hydroge	en bromide. Hydrogen fluoride.
5.3. Advice for firefighters		-		-
Firefighting instructions	: In c	ase of fire: Evacuate area.		
Protection during firefighting	: We	ar gas tight chemically protective c paratus. For further information refe	lothing in combinatior r to section 8: "Expos	n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental releas	e mea <u>sures</u>			
6.1. Personal precautions, prote	ctive equipmer	nt and emergency procedures		
General measures	: Eva	acuate unnecessary personnel. Ens	sure adequate air ven	tilation. Do not breathe dust.
6.1.1. For non-emergency person	nol			
6.1.1. For non-emergency person				

refer to section 8: "Exposure controls/personal protection".

6.1.2. For emergency responders

12/06/2016

Emergency procedures

: Do not attempt to take action without suitable protective equipment. For further information

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 author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	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, includ	ling 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.
SECTION 8: Exposure controls/pers	sonal 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

d chemical properties
: Solid
: Low melting solid.
: No data available
: 35 - 37 °C
: No data available

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 availableMolecular mass: 269.89 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		
Molecular mass: 269.89 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 available	Relative density	: No data available
Solubility: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 available	Relative vapor density at 20 °C	: No data available
Log Pow: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableViscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available	Molecular mass	: 269.89 g/mol
Auto-ignition temperature: No data availableDecomposition temperature: No data availableViscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available	Solubility	: No data available
Decomposition temperature: No data availableViscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available	Log Pow	: No data available
Viscosity: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available	Auto-ignition temperature	: No data available
Viscosity, kinematic : No data available Viscosity, dynamic : No data available	Decomposition temperature	: No data available
Viscosity, dynamic : No data available	Viscosity	: No data available
	Viscosity, kinematic	: No data available
9.2. Other information	Viscosity, dynamic	: No data available
	9.2. Other information	

9.2. 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
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.

SECTI	TION 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity	: Oral: Toxic if swallowed.
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

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available

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

Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects

No additional information available

Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN2811 Toxic solids, organic, n.o.s., 6.1, III
	-
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN2811 : Toxic solids, organic, n.o.s. : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 : 6.1 - Poison
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx)	: III - Minor Danger : 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

No additional information available

Safety Data Sheet

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

Transport by sea

UN-No. (IMDG)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811

UN-No. (IATA)	:	2811
Proper Shipping Name (IATA)	:	Toxic solid, organic, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

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

No additional information available

SECTION 16: Other information

Full text of H-phrases:

	Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
	Eye Irrit. 2A	Serious eve damage/eve irritation Category 2A	
	Skin Irrit. 2	Skin corrosion/irritation Category 2	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H301	Toxic if swallowed	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
	H335	May cause respiratory irritation	
NFPA fire		 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was 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	J	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammat	bility	 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)		

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

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.