

Safety Data Sheet 5672320 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/19/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
	: Substance
	: 1,2-Bis(dipentafluorophenylphosphino)ethane
CAS No	: 76858-94-1
	: 5672-3-20
Formula	: C26H4F20P2
Synonyms	: 1,2-Bis[bis(pentafluorophenyl)phosphino]ethane; 1,2- Ethanediylbis[bis(pentafluorophenyl)phosphine; Bis(dipentafluorophenylphosphine)ethane; Dfppe
Other means of identification	: MFCD00058841
1.2. Relevant identified uses of the substa	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 da	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	
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 mix	xture
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye irritatio STOT SE 3 H335 - May cause respiratory irrita	
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
,	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust, mist, spray 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 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 P337+P313 - If eye irritation persists: Get medical advice/attention 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	 P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P337+P313 - If eye irritation persists: Get medical advice/attention P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

Safety Data Sheet

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3.2. Mixture Not applicable SECTION 44 First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep contortable for breathing, give artificial respiration. First-aid measures after exp contact : Wash with plenty of soap and water. Cet medical advice/attention. First-aid measures after exp contact : Wash with plenty of soap and water. Cet medical advice/attention. First-aid measures after exp contact : Remove contact lenses, if present and easy to do. Continue mining. Immediately flush eyes throughly with water for at least 15 minutes. Get medical advice/attention. First-aid measures after ingestion : Due to its physical form, exposure to this chemical is not likely. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after skin contact Symptoms/injuries after skin contact : Contact with the liquid flug age may cause severe and possibly permanent eye injury due to forsbite from rapid liquid evaporation. Symptoms/injuries after eye contact : Direct contact due this the glug flug devaporation. Symptoms/injuries after eye contact : Contact with th	SECTION 5. Composition/informat	tion on ingredients			
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Protective equipment : Do not attempt to take action without suitable protective equipment. For further information	SECTION 6: Accidental release me 6.1. Personal precautions, protective General measures	equipment and emergency pro		te air ventila	tion. Do not breathe dust.
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information	SECTION 6: Accidental release me 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel	equipment and emergency pro- : Evacuate unnecessary per	sonnel. Ensure adequa		
	SECTION 6: Accidental release me 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures	equipment and emergency pro- : Evacuate unnecessary per	sonnel. Ensure adequa		

Safety Data Sheet

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

6.3.	Methods and material for containm	ent	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 addi	tional information available		
SECT	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precauti	ions for safe handling		Do not handle until all safety precautions have been read and understood. Ensure good
	Ũ	-	ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.

7.2.	Conditions for safe storage, includi	ing	any incompatibilities
Technic	cal measures	:	Comply with applicable regulations.
Storage	e conditions	:	Keep container closed when not in use.
Incomp	atible materials	:	Refer to Section 10 on Incompatible Materials.
Storage	e area	:	Store in dry, cool, well-ventilated area.

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 ar	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 188 - 190 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °C
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	: 758.2255 g/mol

Safety Data Sheet

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

: No data available
: No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

11.1.	Information	on toxico	logical effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Contact with the liquid the may cause cold burns/frostbite.
Symptoms/injuries after eye contact	 Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator ed	quipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accord	dance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible	
SECTION 14: Transport information	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	or excluded from listing, on the United States En / except for:	vironmental Protection Agency Toxic
1,2-Bis(dipentafluorophenylphosphino)e	nane CAS No 76858-94-1	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

1,2-Bis(dipentafluorophenylphosphino)ethane (76858-94-1)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

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
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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	: 1 Slight Hazard - Irritation or minor reversible injury possible	
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.