

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2726312 Issue date: 17.11.2015 Revision date: 18.12.2023 Version: 1.1

1.1. Identification			
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	: 1107-00- : 2726-3-1 : C19H6F6 : 2,2-Bis(1	,4-dicarboxypheny 2 2 506 ,3-dihydro-1,3-dio ropropane-2,2-diy	/l)-1,1,1,3,3,3-hexafluoropropane dianhydride xobenzo[c]furan-5-yl)hexafluoropropane; 5,5'-(1,1,1,3,3,3- l)bis(2-benzofuran-1,3-dione); 6FDA
1.2. Recommended use and restrictions of	n use		
Use of the substance/mixture	Manufact	ry chemicals ture of substances research and dev	
1.3. Supplier			
SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 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) 525	8-4086 (3E Comp	any - Account 10069)
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	kture		
GHS US classification Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Specific target organ toxicity – Single exposure, C Respiratory tract irritation Full text of H statements : see section 16	ategory 3,	H314 H318 H335	Causes severe skin burns and eye damage Causes serious eye damage May cause respiratory irritation
2.2. GHS Label elements, including preca	utionary stat	ements	
GHS US labeling			
Hazard pictograms (GHS US)	:		
Signal word (GHS US) Hazard statements (GHS US)	: Danger : H314 - C	auses severe skin	burns and eye damage

H335 - May cause respiratory irritation

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Precautionary statements (GHS US)	 P260 - Do not breathe 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. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse 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
	P310 - Immediately call a POISON CENTER or doctor/ physician
	P321 - Specific treatment (see supplemental first aid instructions on this label)
	P363 - Wash contaminated clothing 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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

3.1. Substances				
Substance type	: Mono-constituent			
Name		Product identifier	%	GHS US classification
2,2-Bis(3,4-dicarboxyphenyl)-1, (Main constituent)	1,1,3,3,3-hexafluoropropane dianhydride	CAS-No.: 1107-00-2	≤ 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of hazard classes and H	-statements : see section 16			
3.2. Mixtures				

Not applicable

SECTION 4: First-aid measures			
4.1. Description of 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 comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		

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4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.			
5.2. Specific hazards arising from the chem	from the chemical			
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.			
5.3. Special protective equipment and prec	autions for fire-fighters			
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. 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 measures		
6.1. Personal precautions, protective 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 authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up			
For containment Methods for cleaning up Other information	 Stop leak if safe to do so. Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 		

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Ĵ	 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. 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 an	ny incompatibilities				
Storage conditions Incompatible materials	 Comply with applicable regulations. Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas. Refer to Section 10 on Incompatible Materials. Store in dry, cool, well-ventilated area. 				

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2.2-Bis(3.4-dicarboxyphen)-1,1,1,3,3,3-hexafluoropropane dianhydr	ide (1107-00-2)
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No additional information available

8.2. Appropriate engineering 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.

8.3. Individual protection measures/Personal protective equipment

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

Personal protective equipment symbol(s):



Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Color	: No data availat	ole
Odor	: No data availat	ole
Odor threshold	: No data availat	ole
рН	: No data availat	ole
Melting point	: 244 – 247 °C	
Freezing point	: No data availat	ole
Boiling point	: No data availat	ole
Flash point	: No data availat	ole
Relative evaporation rate (butyl acetate=1)	: No data availat	ole
Flammability (solid, gas)	: No data availat	ole
Vapor pressure	: No data availat	ole
Relative vapor density at 20 °C	: No data availat	ole
Relative density	: No data availat	ole
Molecular mass	: 444,24 g/mol	
Solubility	: No data availat	ole
Partition coefficient n-octanol/water (Log Pow)	: No data availat	ole
Auto-ignition temperature	: No data availat	ole
Decomposition temperature	: No data availat	ole
Viscosity, kinematic	: No data availat	ole
Viscosity, dynamic	: No data availat	ole
Explosion limits	: No data availat	ole
Explosive properties	: No data availat	
Oxidizing properties	: No data availat	ole

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

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.

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SECTION 11: Toxicological information 11.1. Information on toxicological effects			
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Skin corrosion/irritation	: Causes severe skin burns.		
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		
STOT-single exposure	: May cause respiratory irritation.		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.		
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability		
2,2-Bis(3,4-dicarboxyphenyl)-1,1,1,3,3,3-he	s(3,4-dicarboxyphenyl)-1,1,1,3,3,3-hexafluoropropane dianhydride (1107-00-2)	
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	
12.3. Bioaccumulative potential		
2,2-Bis(3,4-dicarboxyphenyl)-1,1,1,3,3,3-hexafluoropropane dianhydride (1107-00-2)		
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.	
12.4. Mobility in soil		

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

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Sewage disposal recommendations Product/Packaging disposal recommendations Additional information Ecology - waste materials	 See the EPA's Interim Guidance on PFAS Destruction and Disposal. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible. This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.
SECTION 14: Transport information	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN3261 : Not applicable : 3261 : 3261

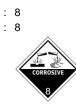
14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Corrosive solid, acidic, organic, n.o.s.
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) Hazard labels (DOT)



TDG

Transport hazard class(es) (TDG)

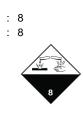
IMDG

Transport hazard class(es) (IMDG) Hazard labels (IMDG)

IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)





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14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: II : Not applicable : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT Deckooing Exceptions (40 CER 172 yww)	 UN3261 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). 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. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	: 154 : 212 : 240 : 15 kg : 50 kg
CFR 175.75) 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.
TDG No data available	
IMDG Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: 274 : 1 kg : E2 : P002 : IBC08

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Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: T3 : TP33 : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES : B
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y844
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 859
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 863
CAO max net quantity (IATA)	: 50kg
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

2,2-Bis(3,4-dicarboxyphenyl)-1,1,1,3,3,3-hexafluoropropane dianhydride (1107-00-2)

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

EU-Regulations

2,2-Bis(3,4-dicarboxypne)	nyi)-1,1,1,3,3,3-nexatiuoropropane diannydride (1107-00-2)	
Listed on the EEC inventory El	INECS (European Inventory of Existing Commercial Chemical Substances	;)

National regulations

2,2-Bis(3,4-dicarboxyphenyl)-1,1,1,3,3,3-hexafluoropropane dianhydride (1107-00-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases		
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
NFPA health hazar	d :	3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	:	0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating		
Health	:	3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.
Safety Data Sheet (SDS), USA		