

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2121349 Issue date: 07.01.2015 Revision date: 18.12.2023 Version: 1.1

SECTION 1: Identification 1.1. Identification Product form : Substance Substance name 2,2-Bis(trifluoromethyl)propionic acid : CAS-No. : 45048-36-0 Product code : 2121-3-49 Formula : C5H4F6O2 Synonyms : 3,3,3-Trifluoro-2-methyl-2-(trifluoromethyl)propanoic acid Other means of identification : MFCD00236083 1.2. Recommended use and restrictions on use Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 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 : (844) 523-4086 (3E Company - Account 10069) Emergency number SECTION 2: Hazard(s) identification

.1. Classification of the substance or mixture		
HS US classification		
kin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
erious eye damage/eye irritation Category 1	H318	Causes serious eye damage
pecific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation
espiratory tract irritation		
text of H statements : see section 16		
2. GHS Label elements, including precautionary state	ements	
S US labeling		

Hazard pictograms (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

:		
:	Danger	

- : H314 Causes severe skin burns and eye damage H335 - May cause respiratory irritation
- : P260 Do not breathe dust, mist, spray. P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area.

Signal word (GHS US)

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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

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

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
2,2-Bis(trifluoromethyl)propionic acid (Main constituent)	CAS-No.: 45048-36-0		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.	
4.2. Most important symptoms and effe	ects (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.

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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 c	:hemical		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.		
5.3. Special protective equipment and	precautions 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		
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

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 eves.	
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.	

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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,2-Bis(trifluoromethyl)propionic acid (45048-36-0)		
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.

Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 109 – 112 °C
Freezing point	: No data available
Boiling point	: No data available

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Flash point	: >110 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,479 g/ml (@ 20 °C)
Molecular mass	: 210,07 g/mol
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Refractive index

: 1,314 (@ 20 °C)

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

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

: Not classified	
: Not classified	
: Not classified	
: Causes severe skin burns.	
: Causes serious eye damage.	
: Not classified	
: Not classified	

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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(trifluoromethyl)propionic acid (45048-36-0)		
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(trifluoromethyl)propionic acid (45048-36-0)		
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 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. : Sewage disposal recommendations : See the EPA's Interim Guidance on PFAS Destruction and Disposal. Product/Packaging disposal recommendations Dispose of contents/container in accordance with licensed collector's sorting instructions. · Additional information : Recycle the material as far as possible. Ecology - waste materials : 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 info	rmation	
14.1. UN number		
DOT NA No	: UN3261	

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UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: Not applicable : 3261 : 3261
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Corrosive solid, acidic, organic, n.o.s. Not applicable CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. Corrosive solid, acidic, organic, n.o.s.
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORROSIVE 8
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 8 : 8
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : Not applicable : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT)	: UN3261

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	 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 II 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 and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in
DOT Packaging Exceptions (49 CFR 173.xxx)	accordance with the applicable requirements of this subchapter. : 154
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Quantity Limitations Passenger aircraft/rail (49	: 25 kg
CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 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.
TDG No data available	
IMDG	
Special provision (IMDG)	: 223, 274
Special provision (IMDG) Limited quantities (IMDG)	: 5 kg
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 5 kg : E1
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 5 kg : E1 : P002, LP02
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: 5 kg : E1 : P002, LP02 : IBC08
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	: 5 kg : E1 : P002, LP02 : IBC08 : B3
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: 5 kg : E1 : P002, LP02 : IBC08
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	: 5 kg : E1 : P002, LP02 : IBC08 : B3 : T1
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 5 kg : E1 : P002, LP02 : IBC08 : B3 : T1 : TP33
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	 : 5 kg : E1 : P002, LP02 : IBC08 : B3 : T1 : TP33 : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES : A
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA packing instructions (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A E1 Y845 5kg 860 25kg
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) PCA packing instructions (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A E1 Y845 5kg 860 25kg 864
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA)	 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A E1 Y845 5kg 860 25kg

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

Not applicable

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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, except for:		
2,2-Bis(trifluoromethyl)propionic acid	CAS-No. 45048-36-0	100%
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, 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	