

Safety Data Sheet 2129314

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/19/2015 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 3,3,3-Trifluoro-2-hydroxypropionic acid	
CAS No	: 684-07-1	
Product code	: 2129-3-14	
Formula	: C3H3F3O3	
Synonyms	: (DL)-3,3,3-Trifluorolactic acid	
Other means of identification	: MFCD00051802	
1.2. Relevant identified uses of the	substance 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 sa	fety data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identificat	ion	
2.1. Classification of the substance	or mixture	
Classification (GHS-US)		
Skin Corr. 1B H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirat	e damage	
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	CHS05 GHS07	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation	
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 P2041 - P240. If inheled: Remove person to fresh air and keep comfertable for breathing. 	

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

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SECTION 3: Composition/information on ingredients Substance type Mono-constituent Nume Product identifier % Classification Substance type : Mono-constituent Nume Product identifier % Classification 3.3.3 -Tifluoro-2-hydroxypropionic acid (CAS No) 684-07-1 <= 100 Skin Corr. 18, HE Eye Dam. 1, H3 Substance type Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (sho where possible). Move the affected personnel away from the contaminated are first-aid measures after inhalation : Remove person to fresh air and keep comforable for breathing, if not breathing respiration. Get immediate medical advice/attention. First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoe: medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mount to an unconscious per mouth out with water. Get immediate medical advice/attention. <th>314 8 5 w the label ra.</th>	314 8 5 w the label ra.		
2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type : Mono-constituent Name Product identifier % Qhan constlauent e= 100 Skn Corr. 18, H3 Substance type : Mono-constituent e= 100 Skn Corr. 18, H3 Full text of H-phrases: see section 16 3.2. Mixture Stor 7.8 E 3, H33 Stor 11 text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (sho where possible). Move the affected personnel away from the contaminated are medical advice/attention. : Remove person to fresh air and keep comfortable for breathing. If not breathing respriation. Get immediate medical advice/attention. First-aid measures after skin contact : Immediately flush opes and water. Remove contaminated are medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious per mouth out with water for at least 15 minutes, Remove present and easy to do. Continue rinsing. Get immediate medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed	314 8 5 w the label ra.		
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apparatus. For further information refer to section 8: "Exposure controls/persor	 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 brea			
6.1.1. For non-emergency personnel	nal protection".		
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may inter	nal protection".		
6.1.2. For emergency responders	nal protection".		
Protective equipment : Do not attempt to take action without suitable protective equipment. For further refer to section 8: "Exposure controls/personal protection".	nal protection".		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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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. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Storage area

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.

: Store in dry, cool, well-ventilated area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 68 - 69 °C
Freezing point	: No data available
Boiling point	: 157 °C (@ 123 mm Hg)
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
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 144.05 g/mol

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Solubility	: No data available
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**

No additional information available

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

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
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
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	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION	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
12.4.	Mobility in soil
No additi	onal information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods Waste treatment methods Waste disposal recommendations Additional information Mathematical States	 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	: UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN3261 : Corrosive solid, acidic, organic, n.o.s. : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	 III - Minor Danger 213 240 G - Identifies PSN requiring a technical name 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 31H22); 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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
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.
Other information	: No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG)

12/06/2016

: 3261

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Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
OFOTION 45. Descriptions infor	

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

3,3,3-Trifluoro-2-hydroxypropionic acid	CAS No 684-07-1	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:

Full text of H-phrases:	
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
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	: 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.
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.