

Safety Data Sheet 6164102

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/21/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	O the large
Product form	: Substance
Substance name	: Methanesulfonic anhydride
CAS No	: 7143-01-3
Product code	: 6164-1-02
Formula	: C2H6O5S2
Synonyms	: Mesyl anhydride; Mesic anhydride
Other means of identification	: MFCD00007556
	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 safe	
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Americ	a
T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	S.COM
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Skin Corr. 1B H314 - Causes severe skin	burns and eye damage
Eye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respirato	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS05 GHS07
Signal word (GHS-US)	GHS05 GHS07 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	

ke off immediat 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

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2.3. **Other hazards**

Other hazards not contributing to the : Reacts violently with water.

classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type	: Mor	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Methanesulfonic anhydride (Main constituent)		(CAS No) 7143-01-3	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personne		
First-aid measures after inhalation		nove person to fresh air and keep comfort iration. Get immediate medical advice/att		ng. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Remove lical advice/attention.	contaminated	clothing and shoes. Get immediate
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		NOT induce vomiting. Never give anything the out with water. Get immediate medical		
4.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and eff and/or in section 11.	ects are descrit	bed in the labelling (see section
Symptoms/injuries after inhalation		erial is destructive to tissue of the mucuou tness of breath, headache, nausea.	is membranes	and upper respiratory tract. Cough
4.3. Indication of any immediate media	al attenti	on and special treatment needed		
Treat symptomatically				

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the su	ubstance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides. Sulfur oxides.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
Protection during firefighting	: 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		
Emergen	cy 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.

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6.3. Methods and material for containment 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, includin	ig any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Hygroscopic. Moisture sensitive. 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**

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.

9.1. Information on basic physical and	n basic physical and chemical properties			
Physical state	: Solid			
Color	: No data available			
Odor	: No data available			
Odor threshold	: No data available			
рН	: No data available			
Melting point	: 64 - 67 °C			
Freezing point	: No data available			
Boiling point	: 125 °C (@ 4 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	: 174.196 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

Other information 9.2.

No additional information available

SECT	ION 10: Stability and reac	tivity			
10.1.	Reactivity				
No addi	No additional information available				
10.2.	Chemical stability				
The pro	duct is stable at normal handling a	ind storage conditions.			
10.3.	Possibility of hazardous react	ions			
Reacts	violently with water.				
10.4.	Conditions to avoid				
Keep av	way from heat, sparks and flame. I	Noisture.			
10.5.	Incompatible materials				
Strong	oxidizing agents. Water.				
10.6.	Hazardous decomposition products				
	normal conditions of storage and us e Section 5.	se, hazardous decomposition products should not be produced. Hazardous decomposition products in case of			
SECT	ION 11: Toxicological info	rmation			
11.1.	Information on toxicological e	iffects			
Acute to	oxicity	: Not classified			
Skin co	rrosion/irritation	: Causes severe skin burns and eye damage.			

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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.

SECTIO	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 considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance 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 Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

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)

: UN3261 Corrosive solid, acidic, organic, n.o.s., 8, II

: UN3261

- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
 - 8 Corrosive



- : II Medium Danger
- : 212
- : 240
- : G Identifies PSN requiring a technical name

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 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 accordance with the applicable requirements of this subchapter.

: 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

DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	•	15 kg
DOT Quantity Limitations Cargo aircraft only (49	•	50 ka

DOT Quantity Limitations Cargo aircraft only (49 : 50 kg CFR 175.75)

DOT Vessel Stowage Location

Other information

passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.No supplementary information available.

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TDG

No additional information available

Transport by sea	
UN-No. (IMDG)	: 3261
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium 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)	: II - Medium Danger

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:

	Methanesulfonic anhydride
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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.

CAS No 7143-01-3

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:

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

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

: 1 - Must be preheated before ignition can occur.

: 2 - Normally unstable and readily undergo violent

decomposition but do not detonate. Also: may react violently with water or may form potentially explosive

NFPA health hazard

NFPA fire hazard
NFPA reactivity

EN (English US)

mixtures with water.

given.

100%

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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 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	: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

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 offend 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.