1.1

Product identifiers



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Triethyl 2-hydroxypropane-1,2,3-tricarboxylate(Triethyl citrate) 77-93-0 CAS Number: Catalog Numbers: A485424 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: For laboratory research purposes.Not for drug or household use. 1.3 Details of the supplier of the safety data sheet Ambeed. Inc. 3205 N WILKE RD, STE 3205-125, Arlington Hts, IL 60004, USA Tel: 630-580-1088 E-mail: sales@ambeed.com AnBer 1.4 Emergency telephone number Emergency phone (USA): 1-352-323-3500 Emergency phone (Canada): 1-800-535-5053 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, oral(Category 4) H302 Skin corrosion/irritation (Category 2) H315 Serious eye damage/eye irritation(Category 2A) H319 Specific target organ toxicity, single exposure;Respiratory H335 system(Category 3) No Resource File 2.2 GHS Label elements, including precautionary statements Pictogra Signal word: Warning Hazard statement(s) H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation Precautionary statement(s) P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if vou feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338

P304+P340

2.3 Other hazards

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position comfortable for breathing.

IF INHALED: Remove victim to fresh air and keep at rest in a

contact lenses, if present and easy to do. Continue rinsing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

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Additional precautionary phrases are located throughout the safety data sheet.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Molecular Formula: C12H20O7 3.1 Molecular Weight: 276.28

Component N	P	Concentration
Triethyl 2-hydroxypropane-1,2,3-t		
CAS Number	77-93-0	-

FIRST AID MEASURES 4.

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture 5.2

In combustion toxic fumes may form.

5.3 Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

ACCIDENTAL RELEASE MEASURES 6.

6.1 Personal precautions, protective equipment and emergency procedures

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Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not attempt to take action without suitable protective clothing. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas.

6.3 Methods and materials for containment and cleaning up

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.Sealed in dry,Room Temperature

7.3 Specific end use(s)

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

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Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

PHYSICAL AND CHEMICAL PROPERTIES 9.

).	PHYSICAL AND CHEMICAL PROPERTIE	S Be
	Appearance	Form: liquid / Colour: Colorl <mark>ess -</mark> Slightly pale yellow
	Boiling Point	No data available
	Melting Point	No data available
	Odour	No data available
	Odour Threshold	No data available
	рН	No data available
	Flash point	No data available
	Evapouration rate	No data available
	Vapour pressure	No data available
	Vapor Density	No data available
	Relative density	No data available
	Solubility in water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity No Data	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Strong oxidizing agents
- 10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide

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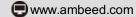
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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye Damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

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11.2 Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available
- 12.5 Results of PBT and vPvB assessment No data available
- 12.6 Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Operations

Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

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IATA: -

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SAFETY DATA SHEET (A485424)							



14.2	UN proper shipping name	AJAMBe		
	ADR/RID: Not dangerous goods	RIPA		
	IMDG: Not dangerous goods			
	IATA: Not dangerous goods			
14.3	Transport hazard class(es)			
	ADR/RID: -	IMDG: -	IATA: -	
14.4	Packaging group			
	ADR/RID: -	IMDG: -	IATA: -	
115	Environmental hazards			
14.5	ADR/RID: -	IMDG: -	IATA: -	
			<i>U</i> (17).	
14.6	Special precautions for user	á.		
	No special precautions required	AJAmBeed		
14.7	Further information	ADATAL		
	No data available			
15.	REGULATORY INFORMATION	N		
	This product is ON the EPA Toxic S	ubstances Control Act (TSCA) invent	ory.	
	California Proposition 65			
	Not listed on California's listing of kr	nown or potential carcinogens.		
	U.S. Federal Regulations			
	SARA 313: Not applicable	d		
	SARA 302: Not applicable	Ber		
	SARA 311/312 Hazard Categories: See section 2 for more information			
	Safety Assessment			

Safety Assessment

No Chemical Safety Assessment

16. OTHER INFORMATION

Paul

The reference company name of written contents Company: Ambeed, Inc. Tel:630-580-1088 Fax: 630-581-0788 E-mail:sales@ambeed.com Address: 3205 N WILKE RD, STE 3205-125, Arlington Hts, IL 60004, USA AmBer

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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

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Revision Date 11/10/2023 Print Date 05/08/2024

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