

Ester Alcohol Coalescent, Fernestanol

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SECTION 1: Identification

1.1. Identification	
Product form Trade name Chemical name CAS-No.	 Substance Ester Alcohol Coalescent, Fernestanol 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE 25265-77-4
Product code Formula Synonyms	 Ester Alcohol C12H24O3 Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol / Propanoic acid, 2-methyl-,
	monoester with 2,2,4-trimethyl-1,3-pentanediol / Propionic acid, 2-methyl-, monoester with 2,2,4- trimethyl-1,3-pentanediol / Texanol / 2,2,4-Trimethyl-1,3-pentanediol isobutyrate / Trimethyl pentanediol monoisobutyrate / Isobutyric acid, monoester with 2,2,4-trimethyl-1,3-pentanediol /
	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate / 2,2,4-Trimethyl-1,3-pentanediol mono(2- methylpropanoate) / 2,2,4-Trimethyl-1,3-pentanediol 2-methylpropanoate / 2,2,4-Trimethyl-1,3- pentanediolmono(2-methylpropanoate) / Trimethyl hydroxypentyl isobutyrate / TRIMETHYL
	HYDROXYPENTYL ISOBUTYRATE / trimethyl hydroxypentyl isobutyrate

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier/Distributor

Silver Fern Chemical, Inc. 2226 Queen Anne Avenue North Seattle WA 98109, USA Phone: 1-866-282-3384 Info@silverfernchemical.com

1.4. Emergency telephone number

Emergency number 24 Hour Emergency Contact Infotrac 1-800-535-5053 (USA & Canada) Outside USA & Canada 1-352-323-3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Hazardous to the aquatic environment - Acute Hazard Category 3 H402 Full text of H- and EUH-statements: see section 16 Harmful to aquatic life

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard statements (GHS US)	H402 - Harmful to aquatic life
Precautionary statements (GHS US) :	P273 - Avoid release to the environment.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available



2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (Main constituent)	CAS-No.: 25265-77-4	≥ 98.5

Full text of hazard classes, H- and EUH-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	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.	
4.3. Immediate medical attention and special treatment, if necessary		

No additional information available

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.	
5.2. Specific hazards arising from the chemical		
No additional information available		
5.3. Special protective equipment and prec	autions for fire-fighters	
Firefighting instructions Protection during firefighting	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection. 	



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, includin	g any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Incompatible materials. Keep container closed when not in use.
Incompatible products Incompatible materials	Strong bases. Strong acids.Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.



Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: -50 °C ; -58.0 °F
Freezing point	: No data available
Boiling point	: 255 – 260 °C ; 491 - 500 °F
Flash point	: 120 °C (open cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.01 mm Hg at 20°C
Relative vapor density at 20 °C	: 7.5
Relative density	: 0.95
Molecular mass	: 216.3 g/mol
Solubility	: Water: 2 g/100ml
Partition coefficient n-octanol/water (Log Pow)	: 3.47 (at 25 °C)
Auto-ignition temperature	: 393 °C ; 739 °F
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 0.6 – 4.2 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.



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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

44.4. Information on toxicological offsets	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONO	DISOBUTYRATE (25265-77-4)
LD50 oral rat	3200 mg/kg
LD50 dermal rat	> 15200 mg/kg
LC50 Inhalation - Rat	> 3.5 mg/l (Exposure time: 6hr)
ATE US (oral)	3200 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water :	Harmful to aquatic life.
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)	
LC50 - Fish [1]	30 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 - Fish [2]	> 95 mg/l (Exposure time: 96 h - Species: Daphnia Magna)
12.2. Persistence and degradability	
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)	

Persistence and degradability

Not established.



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12.3. Bioaccumulative potential		
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)		
Partition coefficient n-octanol/water (Log Pow)	3.47 (at 25 °C)	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations		
13.1. Disposal methods		
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of	
Ecology - waste materials	contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.Avoid release to the environment.	
SECTION 14: Transport information		
In accordance with Department of Transport / IMDG	/ IATA	
14.1. UN number		
Not regulated for transport		
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Not applicable	
Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	: Not applicable : Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
14.3. Transport hazard class(es)		
DOT		
Transport hazard class(es) (DOT)	: Not applicable	
IMDG		
Transport hazard class(es) (IMDG)	: Not applicable	
Transport hazard class(es) (IATA)	: Not applicable	
14.4. Packing group		
Packing group (DOT) Packing group (IMDG)	: Not applicable : Not applicable	
Packing group (IATA)	: Not applicable	
14.5. Environmental hazards		
Other information	: No supplementary information available.	



14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

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

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

This product or mixture is not known to 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

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (National Chemicals Inventory)



Silver Fern Chemical, Inc. Safety Data Sheet Ester Alcohol Coalescent, Fernestanol

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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Revision date	: 05/07/2021		
Other information	: None.		

Full text of H-phrases			
H402	Harmful to aquatic life		
NFPA health ha	azard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire haza	rd	: 1 - Materials that must be preheated before ignition can occur.	
NFPA reactivity		: 0 - Material that in themselves are normally stable, even under fire conditions.	

Safety Data Sheet (SDS), USA

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The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.