



# AccuStandard, Inc.

125 Market St., New Haven, CT 06513 USA  
Tel: 203-786-5290 Fax: 203-786-5287

## SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 - Product Identifiers

Catalog Name: UG-012N

Description: Monoolein

CAS No.: 111-03-5

#### 1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

#### 1.3 - Supplier Details

Company: AccuStandard, Inc.  
125 Market St.  
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

#### 1.4 - Emergency Telephone Number

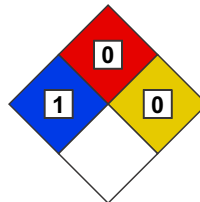
Emergency Phone #: AccuStandard, Inc.  
1-203-786-5290  
Hours: Monday to Friday 8:00am to 5:00pm EST

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 - GHS Label Elements



Signal Word: **Warning**



1	HEALTH
0	FLAMMABILITY
0	PHYSICAL HAZARD

#### 2.2 - Other Hazards

##### 2.2.1 - Symptom of Exposure Health/Environment

Not considered to be a hazardous substance or mixture according to the GHS classification system. Exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices when handling this product.

##### 2.2.2 - Potential Health Effects

May be irritating to eyes.

May be irritating to skin.

Not expected to be a respiratory hazard based on normal conditions of use.

##### 2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

**SECTION 2 - HAZARDS IDENTIFICATION** - continued2.2 - Other Hazards - continued2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

**SECTION 3 - COMPOSITION / ANALYTES DATA**

Description: Monoolein

Synonyms: Monoolein; 1-Oleoyl-rac-glycerol; (9Z)-Octadecenoic acid, 2,3-dihydroxypropyl ester; Glycerol monooleate

Molecular Weight: 356.54

Molecular Formula: C<sub>21</sub>H<sub>40</sub>O<sub>4</sub>

EC#: 203-827-7

Analyte	CAS Number	% Concentration	ACGIH -TLV (mg/m <sup>3</sup> )			OSHA -PEL (mg/m <sup>3</sup> )		
			TWA	STEL	Skin	TWA	STEL	Skin
Monoolein	111-03-5	100.000						

**SECTION 4 - FIRST AID MEASURES**4.1 - First Aid Procedures - General

Get medical assistance if any adverse effects should develop.

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water.

4.3 - Skin Contact

Skin contact: Wash thoroughly with soap and water.

4.4 - Inhalation

Inhalation: Remove to fresh air. Get medical attention if cough or other symptoms develop.

4.5 - Ingestion

Ingestion: Not hazardous. First aid is normally not required. Seek medical attention if discomfort occurs.

**SECTION 5 - FIRE FIGHTING MEASURES**5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****6.1 - Spill Response**

Wear a self-contained breathing apparatus and appropriate Personal protection. Prevent contact with skin or eyes. Ventilate area. Avoid raising dust. Take up and containerize for proper disposal. Flush spill area with water. Comply with Federal, State, and local regulations.

**SECTION 7 - HANDLING AND STORAGE**

Store under inert atmosphere.  
Sensitive to air and light.  
Use with adequate ventilation.  
Avoid prolonged or repeated exposure.  
Store in a cool place below 14 °F (-10 °C).

**SECTION 8 - EXPOSURE CONTROLS****8.1 - Engineering Controls/PPE**

Wash thoroughly after handling.

**8.2 - General Hygiene Considerations**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AF/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Compatible chemical-resistant protective gloves must be worn to prevent skin contact. Inspect gloves prior to use. Use proper glove removal technique to avoid contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly and dry.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White solid  
Odor: N/A  
Odor Threshold: N/A  
pH: N/A  
Melting Point: 35 °C  
Boiling Point: N/A  
Flash Point: 309.2 °F (154 °C) (cc)  
Evaporation Rate (Butyl Acetate=1): N/A  
Flammability Class: N/A  
Lower Flammability Level: N/A  
Upper Flammability Level: N/A  
Vapor Pressure: N/A  
Vapor Density (Air = 1): N/A  
Specific Gravity: N/A

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** - continued

Solubility in Water: Insoluble  
Partition Coefficient: N/A  
Autoignition Temperature: N/A  
Decomposition Temperature: N/A  
Viscosity: N/A  
VOC Content: N/A  
Percent Volatile: N/A

**SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable  
Materials to Avoid: Oxidizers  
Hazardous Decomposition: Carbon oxides  
Hazardous Polymerization: Will not occur  
Condition to Avoid: Heat; Air; Light

**SECTION 11 - TOXICOLOGICAL INFORMATION****Human Health Toxicity**

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal): N/A

LC50 (Inhalation): N/A

No other information related to the toxicological properties of this product is available at this time.

**SECTION 12 - ECOLOGICAL INFORMATION****Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No other information related to the ecological properties of this product is available at this time.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

**SECTION 14 - TRANSPORT INFORMATION****Transportation Information (DOT/IATA)**

UN Number: NR

UN Shipping Class: NR

UN Packing Group: NR

UN Proper Shipping Name: Not Regulated for Transport

**SECTION 14 - TRANSPORT INFORMATION** - *continued*

Poison by Inhalation: No

Marine Pollutant: No

**SECTION 15 - REGULATORY INFORMATION**

This product is NOT subject to SARA section 313 reporting requirements.

The CAS number of this product is listed on the TSCA Inventory.

**For laboratory, research and development use only. Not for manufacturing or commercial purposes.**

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

**SECTION 16 - OTHER INFORMATION**

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

**NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.**

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

**HMIS/NFPA HAZARD INDEX**

- 0 - Minimal
- 1 - Slight
- 2 - Moderate
- 3 - Serious
- 4 - Severe

\* - Additional Hazard

**GHS HAZARD INDEX**

Category 1 - Most Severe

Category 5 - Least Severe

\*\*\*\* End of Document \*\*\*\*