

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier** POLYCIN\* 12

**Chemical Abstracts Registry No:** 78-22-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Not provided.

**1.3. Details of the supplier of the safety data sheet**

Vertellus LLC  
201 North Illinois Street, Suite 1800  
Indianapolis, Indiana 46204 USA  
1-336-292-1781

**e-mail Address:** sds@vertellus.com

**1.4. Emergency telephone number** **Vertellus:** 1-336-292-1781  
**CHEMTREC (USA):** +1-800-424-9300 (collect calls accepted)  
**CHEMTREC (International):** +1-703-527-3887 (collect calls accepted)  
**NRCC (China):** +86 532 83889090

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture (According to Regulation (EC) No 1272/2008, 29 CFR 1910.1200 and the Globally Harmonized System)**

Not Classified as Hazardous

**2.2. Label elements**

**Signal Word:** Not required.

**Hazard Precautions:** Not Classified as Hazardous

**Prevention Precautionary Statements:** Note: These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.

**First Aid Precautionary Statements:** Not required.

**Storage Precautionary Statements:** Not required.

**2.3. Other hazards**

**Other Hazards:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.1. Substances or 3.2. Mixtures**

## SAFETY DATA SHEET

Ingredient	CAS Number	Concentration (weight %)	EC Number	CLP Inventory/ Annex VI	EU CLP Classification (1272/2008)
Pentaerythritol monoricinoleate	78-22-8	~ 100	201-095-3	Not listed.	Non-Hazardous

NOTE: See Section 8 for exposure limit data for these ingredients. See Section 15 for trade secret information (where applicable).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Skin Contact:</b>	Wash thoroughly after skin contact. Get medical attention if irritation develops or persists.
<b>Eye Contact:</b>	Flush eyes with water for at least 15 minutes; if irritation occurs seek medical attention.
<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
<b>Ingestion:</b>	Do NOT induce vomiting. Contact a poison information service for immediate/additional treatment advice GET MEDICAL ATTENTION.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Acute:</b>	Not expected to cause significant eye or skin irritation or sensitization. Not expected to be acutely toxic.
<b>Delayed Effects:</b>	None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to Physician:</b>	No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Appropriate Extinguishing Media:</b>	Dry chemical, Water fog, Carbon dioxide, Foam
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#### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous Products of Combustion:</b>	Carbon dioxide, Carbon monoxide Soot
<b>Potential for Dust Explosion:</b>	not available
<b>Special Flammability Hazards:</b>	Material may burn, but does not ignite readily. Avoid high temperature.

#### 5.3. Advice for firefighters

<b>Basic Fire Fighting Guidance:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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## SAFETY DATA SHEET

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- Evacuation Procedures:** Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Special Instructions:** See Section 8 for personal protective equipment recommendations. Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

#### 6.2. Environmental precautions

Prevent releases to soils, drains, sewers and waterways.

#### 6.3. Methods and material for containment and cleaning up

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Remove all ignition sources. Ventilate the area of spill or leak. Wear protective equipment during clean-up. For small spills, use suitable absorbent material and collect for later disposal. For large spills, the area may require diking to contain the spill. Material can then be collected (eg., suction) for later disposal. After collection of material, flush area with water. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws.

#### 6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for Unique Hazards:** Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled container.
- Practices to Minimize Risk:** Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds.
- Special Handling Equipment:** Not applicable.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage Precautions & Recommendations:** This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use.
- Dangerous Incompatibility Reactions:** Strong oxidizing agents
- Incompatibilities with Materials of Construction:** None known

#### 7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

### SECTION 8: Exposure controls/personal protection

## SAFETY DATA SHEET

### 8.1. Control parameters

Country	Occupational Exposure Limit
<b>Derived No Effect Levels (DNELs) – Workers:</b>	
Route	DNEL
<b>Derived No Effect Levels (DNELs) – General Population:</b>	
Route	DNEL
<b>Predicted No Effect Concentrations (PNECs):</b>	
Route	PNEC

### 8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

<b>Other Engineering Controls:</b>	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.
<b>Personal Protective Equipment:</b>	Impervious gloves, boots, and clothing, chemical goggles or face shield where necessary, and a NIOSH approved chemical cartridge respirator or supplied air breathing apparatus with organic vapour/acid gas cartridges with particle filters.
<b>Respirator Caution:</b>	Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.
<b>Thermal Hazards:</b>	Not applicable.
<b>Environmental Exposure Controls:</b>	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance, State &amp; Odor (ambient temperature):</b>	Amber colored liquid with a mild odor.		
<b>Molecular Formula:</b>	No data available.	<b>Molecular Weight:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.	<b>Evaporation Rate:</b>	< 1 (Butyl Acetate = 1)
<b>Specific Gravity or Density:</b>		<b>Vapor Density (air = 1):</b>	Heavier than air.
<b>Boiling Point:</b>	No data available.	<b>Freezing / Melting Point:</b>	-20 °F
<b>Solubility in Water:</b>	Not soluble.	<b>Octanol / Water Coefficient:</b>	No data available.
<b>pH:</b>	No data available.	<b>Odor Threshold:</b>	No data available.
<b>Viscosity:</b>	No data available.	<b>Autoignition Temperature:</b>	No data available.
<b>Flash Point and Method:</b>	550°F (288°C)	<b>Flammable Limits:</b>	(LEL) –Not applicable. (UEL)

## SAFETY DATA SHEET

<b>Flammability (solid, gas):</b>	No data available.	<b>Decomposition Temperature:</b>	No data available.
<b>Explosive Properties:</b>	Not explosive.	<b>Oxidizing Properties:</b>	Not an oxidizer.

### 9.2. Other information

Not applicable.

## SECTION 10: Stability and reactivity

<b><u>10.1. Reactivity</u></b>	Not classified as dangerously reactive.
<b><u>10.2. Chemical stability</u></b>	Stable
<b><u>10.3. Possibility of hazardous reactions</u></b>	Not expected to occur.
<b><u>10.4. Conditions to avoid</u></b>	Avoid contact with strong oxidizers.
<b><u>10.5. Incompatible materials</u></b>	Strong oxidizing agents
<b><u>10.6. Hazardous decomposition products</u></b>	Products of incomplete combustion may include carbon monoxide, carbon dioxide and dense smoke.; Soot

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute Oral LD<sub>50</sub>:</b>	No data available.
<b>Acute Dermal LD<sub>50</sub>:</b>	No data available.
<b>Acute Inhalation LC<sub>50</sub>:</b>	No data available.
<b>Skin Irritation:</b>	No data available.
<b>Eye Irritation:</b>	No data available.
<b>Skin Sensitization:</b>	No data available.
<b>Mutagenicity:</b>	No data available.
<b>Reproductive / Developmental Toxicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Target Organs:</b>	No data available.
<b>Primary Route(s) of Exposure:</b>	Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.
<b>Most important symptoms and effects, both acute and delayed</b>	Not expected to cause significant eye or skin irritation or sensitization. Not expected to be acutely toxic. Delayed Effects: None known.
<b>Additive or Synergistic effects:</b>	None known.
<b>Additional Toxicity Information:</b>	While no data is available, based on the chemical structure and similar substances, this material is not

## SAFETY DATA SHEET

expected to exhibit a significant toxicity hazard under normal handling conditions.

### SECTION 12: Ecological information

<u>12.1. Toxicity</u>	No data available.
<u>12.2. Persistence and degradability</u>	No data available
<u>12.3. Bioaccumulative potential</u>	No data available
<u>12.4. Mobility in soil</u>	No data available
<u>12.5. Results of PBT and vPvB assessment</u>	No data available.
<u>12.6. Other adverse effects</u>	No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>US EPA Waste Number:</b>	Non-Hazardous
<b>Waste Disposal:</b>	NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate classification code according to the European Community List of Wastes should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

### SECTION 14: Transport information

*The following information applies to all shipping modes (DOT/IATA/ICAO/IMDG/ADR/RID/ADN), unless otherwise indicated:*

<b>14.1. UN number</b>	Not applicable	<b>14.2. UN proper shipping name</b>	Chemicals, n.o.s. (Pentaerythritol monoricinoleate)
<b>14.3. Transport hazard class(es)</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable	<b>IMDG EMS:</b>	Not applicable;
<b>NA Emergency Guidebook Numbers:</b>	Not applicable	<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Chemical Inventory Lists:</b>	<b>Status:</b>		
<b>USA TSCA:</b>	Listed	<b>EINECS:</b>	201-095-3
<b>Canada(DSL/NDSL):</b>	DSL	<b>Japan:</b>	Not listed.

## SAFETY DATA SHEET

<b>Korea:</b>	KE-20770	<b>Australia:</b>	Listed
<b>China:</b>	Not listed.	<b>Philippines:</b>	Not listed.
<b>Taiwan:</b>	Listed	<b>New Zealand:</b>	Listed
<b>German Water Hazard Classification:</b>	No data available. ()		
<b>SARA 313:</b>	Not listed.		
<b>State Regulations:</b>	Not applicable.		

**HMIS IV:**

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

**NFPA:**



### 15.2. Chemical safety assessment

Not applicable.

## SECTION 16: Other information

### Legend of Abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists.

CAS = Chemical Abstracts Service.

CFR = Code of Federal Regulations.

DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.

EC = European Community.

EINECS = European Inventory of Existing Commercial Chemical Substances.

ELINCS = European List of Notified Chemical Substances.

EU = European Union.

GHS = Globally Harmonized System.

LC = Lethal Concentration.

LD = Lethal Dose.

NFPA = National Fire Protection Association.

NIOSH = National Institute of Occupational Safety and Health.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit.

RQ = Reportable Quantity.

SARA = Superfund Amendments and Reauthorization Act of 1986.

TLV = Threshold Limit Value.

WHMIS = Workplace Hazardous Materials Information System.

**Important Note:** Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

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