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SAFETY DATA SHEET

(according to (EC) 1907/2006)

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

1.1. Product identifier	POLYCIN [®] 12
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Not provided.

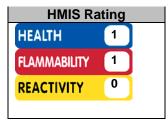
1.3. Details of the supplier of the safety data sheet

Manufacturer Information:	Vertellus Performance Materials, Inc.	
	2110 High Point Road	
	Greensboro, NC 27403 USA	
Non-Emergency Phone Number:	1-336-292-1781	
Non-Emergency Fax Number:	1-336-854-4058	
E-Mail Address:	msds@vertellus.com	
1.4. Emergency telephone num	per	

Vertellus: 1-336-292-1781

CHEMTREC (USA): 1-800-424-9300 (collect calls accepted); (Int'l): 1-703-527-3887 (collect calls accepted; 011 prefix not needed)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture (According to Regulation (EC) No 1272/2008) Not classified as hazardous under this directive.

(According to Directive 67/548/EEC)

Symbol:	Not classified as hazardous under this directive.
Risk Phrases:	Not classified as hazardous under this directive.
Safety Phrases:	Not classified as hazardous under this directive.

2.2. Label elements

Signal Word: Not required.

Hazard Precautions:



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Not classified as hazardous under this directive.

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.

Disposal Precautionary Statements: Not required.

2.3. Other hazards

Signs and Symptoms of Potential Overexposure:	May cause irritation to the eyes on contact; may cause skin irritation, especially if contact is prolonged or repeated. Severe oral exposure will lead to intense burning of the throat and may result in drowsiness, numbness and headache followed by dizziness, weakness and nausea. Acute overexposure in mist form may result in iritation of the throat and lungs.
Primary Route(s) of Exposure:	Skin contact and absorption, eye contact, ingestion, inhalation.
Medical Conditions Aggravated by Exposure:	No data found

SECTION 3: Comp	oosition/information on ingredients
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3.1. Substances or 3.2. Mixtures						
Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	CLP Inventory/ Annex VI	EU DSD Classification (67/548/EEC)	EU CLP Classification (1272/2008)
Pentaerythritol monoricinoleate	78-22-8	100.000000	201-095-3	Not listed.	N/A Not applicable	See Section 2.1

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients. See Section 15 of this MSDS for trade secret information (where applicable). See Section 16 of this MSDS for the full text of the R-phrases above.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin Contact: Wash thoroughly after skin contact. Get medical attention if irritation develops or persists.



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Eye Contact:	Flush eyes with water for at least 15 minutes; if irritation occurs seek medical attention.		
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.		
Ingestion:	Do NOT induce vomiting. Contact a poison information service for immediate/additional treatment advice GET MEDICAL ATTENTION.		
4.2. Most important syn	nptoms and effects, both acute and delayed		
Acute:	May cause irritation to the eyes on contact; may cause skin irritation, especially if contact is prolonged or repeated. Severe oral exposure will lead to intense burning of the throat and may result in drowsiness, numbness and headache followed by dizziness, weakness and nausea. Acute overexposure in mist form may result in iritation of the throat and lungs.		
Delayed Effects:	None known.		
4.3. Indication of any immediate medical attention and special treatment needed			
Thermal Exposure:	Not applicable.		

SECTION 5: Firefighting measures

5.1. Extinguishing media

Note to Physician:

Appropriate Extinguishing Media: Dry chemical Water fog Carbon dioxide Foam

Non-flammable

No additional first aid information available

5.2. Special hazards arising from the substance or mixture

Hazardous Products of Combustion:	Carbon dioxide, Carbon monoxide Soot
Potential for Dust Explosion:	not available
Special Flammability Hazards:	Material may burn, but does not ignite readily. Avoid high temperature.
5.3. Advice for firefighters	
Basic Fire Fighting Guidance:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Flammability Classification (OSHA):

NFPA Rating



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures: Special Instructions: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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



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discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

6.3. Methods and material for containment and cleaning up

Containment Techniques and Clean-up Procedures:	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.
Special Reporting Requirements:	Not applicable.

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.		
Special Handling Equipment:	Not applicable.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage Precautions & Recommendations: Dangerous Incompatibility Reactions:	This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use. Strong oxidizing agents		
Incompatibilities with Materials of Construction: <u>7.3. Specific end use(s)</u>	none known		

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

8.1. Control parameters

Exposure Limits (United States):

OSHA PEL: Not established

ACGIH TLV: Not established

8.2. Exposure controls



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

Personal Protective Equipment:	Impervious gloves, boots, and clothing, chemical goggles or face shield where necessary, and a NIOSH approved chemical cartridge respirator or supplied air breathing apparatus.
Respirator Caution:	Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.
Ventilation:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.
Other Engineering Controls:	All appropriate engineering controls should be used to minimize exposure potential. Use exhaust ventilation to keep airborne concentrations below exposure limits.
Thermal Hazards:	Not applicable.
Additive or Synergistic Effects:	None known.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, State & Odor (ambient temperature):	Amber colored liquid with a mild odor.		
Molecular Formula:	Not available.	Molecular Weight:	Not available.
Vapor Pressure:	Not available.	Evaporation Rate:	< 1 (Butyl Acetate = 1)
Specific Gravity or Density:	0.976	Vapor Density (air = 1):	Heavier than air.
Boiling Point:	Not available.	Freezing / Melting Point:	- 20 F
Solubility in Water:	Not soluble.	Octanol / Water Coefficient:	Not available.
pH:	Not available.	Odor Threshold:	Not available.
Viscosity:	Not available.	Autoignition Temperature:	Not available.
Flash Point and Method:	550°F (288°C) Not provided	Flammable Limits:	Not applicable. (LEL) – Not applicable. (UEL)

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity	Not classified as dangerously reactive.
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	Not expected to occur.
10.4. Conditions to avoid	Avoid contact with strong oxidizers.
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Products of incomplete combustion may include CO, CO2 and dense smoke.; Soot



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD ₅₀ :	Not available.
Acute Dermal LD ₅₀ :	Not available.
Acute Inhalation LC ₅₀ :	Not available.
Skin Irritation:	No data available.
Skin Sensitization:	No data available.
Eye Irritation:	No data available.
Target Organs:	No data available.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Reproduction:	No data available.
Neurotoxicity:	No data available.
Mutagenicity:	No data available.
Additional Toxicity Information:	While no data is availab

While no data is available, based on the chemical structure and similar substances, this material is not expected to exhibit a significant toxicity hazard under normal handling conditions.

SECTION 12: Ecological information

<u>12.1. Toxicity</u>	Not available.
12.2. Persistence and degradability	No data
12.3. Bioaccumulative potential	No data
<u>12.4. Mobility in soil</u>	No data
12.5. Results of PBT and vPvB assessment	Not available.
12.6. Other adverse effects	No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number:Non-HazardousWaste Disposal:Dispose of this material in accordance with standard practice for disposal of potentially hazardous
materials as required by applicable international, national, regional, state or local laws. Do NOT dump
into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate
code according to the European Waste Catalogue (EWC) should be used. Note that disposal
regulations may also apply to empty containers and equipment rinsates.



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SECTION 14: Transport information

14.1. UN number

- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

NA Emergency Guidebook Numbers: Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable Chemicals, n.o.s. (Pentaerythritol monoricinoleate) Not applicable Not applicable Not available. IMDG EMS: Not applicable

Not applicable.

SECTION 15: Regulatory information

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

OSHA Hazards:	Health:	Possible Irritant.	Physical:	Not applicable.	
WHMIS Classification:		Not Controlled			
Chemical Inventory List TSCA: EINECS: Canada(DSL/NDSL Japan: Korea: Australia: New Zealand: China: Philippines: Switzerland:		Status Present 201-095-3 DSL Not listed. KE-20770 Present Present Not listed. Not listed. Not listed. Not listed.			
German Water Hazard (Classificati	on: Not available.			
New Zealand GHS Class	sification:	Not classified by this co	untry.		
Japan GHS Classificatio	on:	Not classified by this co	untry.		
Korea (MOL) GHS Class	sification:	Not classified by this co	untry.		
Australia GHS Classific	ation:	Not classified by this co	untry.		



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Taiwan GHS Classification:	Not classified by this country.
Indonesia GHS Classification:	Not classified by this country.
SARA 313:	None

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Full text of R phrases in Section 3:	Not applicable
Legend of abbreviations:	 ACGIH = American Conference on Governmental Industrial Hygienists. CAS = Chemical Abstracts Service. CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act (1990). CFR = Code of Federal Regulations. DSL/NDSL = Domestic Substances List/Non-Domestic Substances List. EC = European Community. EEC = European Inventory of Existing Commercial chemical Substances. ELINCS = European Inventory of Existing Commercial chemical Substances. EUNCS = European Inventory of Existing Commercial chemical Substances. EUNCS = European List of Notified Chemical Substances. EU = European Union. GHS = Globally Harmonized System. LC = Lethal concentration. LD = Lethal dose. MOL = Ministry of Labor. NEMA = National Emergency Management Agency. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NTP = National Institute of Occupational Safety and Health. NTP = National Safely 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.

Precautionary Statement: 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.

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Revision Details: Revised in all sections to GHS format.