

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® D-140

Synonyms: Not applicable

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

polyols Coatings and Encapsulants

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 Fax Number:

336-854-4058

E-Mail Address:

msds@vertellus.com

Non-Emergency Phone Number: 336-292-1781

1.4. Emergency telephone number

Vertellus: 336-292-1781

CHEMTREC (USA): (800) 424-9300

(collect calls accepted); (Int'l): (703) 527-3887

(collect calls accepted; 011 prefix not needed)

SECTION 2: Hazards identification

HMIS Rating	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

2.1. Classification of the substance or mixture

(According to Regulation (EC) No 1272/2008)

Not classified as hazardous under this directive.

Signal Word:

Not required.

Hazard Precautions:

Not classified as hazardous under this directive.

2.2. Label elements

Prevention Precautions:



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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 Precautions:

Not required.

Storage Precautions:

Not required.

Disposal Precautions:

Not required.

Single Exposure Target Organs:

Not applicable

Repeated Exposure Target Organs:

Not applicable

(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.

2.3. Other hazards

Signs and Symptoms of Potential Overexposure: Single exposure to vapors or mist is not likely to be hazardous. Prolonged skin contact may cause irritation or dermatitis. Contact may cause eye irritation and transient corneal damage. Not likely to be toxic by ingestion. Single dose oral toxicity is low.

Primary Route(s) of Exposure: Skin contact and absorption, eye contact, ingestion, inhalation.

Medical Conditions Aggravated by Exposure: No data found

SECTION 3: Composition/information on ingredients

3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Trade Secret NJ TSR# 54004100000-9917P	Trade Secret	100.000000	Not Listed	N/A	Not applicable

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.

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SECTION 4: First aid measures

4.1. Description of first aid measures

- Skin Contact:** Wash thoroughly after skin contact. Wash with soap and water. Get medical attention if irritation develops or persists.
- Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician. Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. GET MEDICAL ATTENTION. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
- Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician. No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels remove to fresh air and get medical attention if cough or other symptoms develop.
- Ingestion:** If swallowed, do not induce vomiting. Get prompt medical attention. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Do not give anything by mouth to an unconscious person.

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

- Acute:** Single exposure to vapors or mist is not likely to be hazardous. Prolonged skin contact may cause irritation or dermatitis. Contact may cause eye irritation and transient corneal damage. Not likely to be toxic by ingestion. Single dose oral toxicity is low.
- Delayed Effects:** None known.

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

- Thermal Exposure:** Not applicable.
- Note to Physician:** No additional first aid information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Appropriate Extinguishing Media:** Carbon dioxide Dry chemical Alcohol foam

5.2. Special hazards arising from the substance or mixture

- Hazardous Products of Combustion:** None Known
- 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:** Evacuate area and fight fire from a safe distance.
As in any fire, wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
Can burn in fire releasing toxic vapors.
Not known to be sensitive to mechanical impact or static discharges.
- Flammability Classification (OSHA):** Not applicable.

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NFPA Rating



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:	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

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. LARGE SPILLS: Shut off leak if safe to do so.
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:	Not applicable.
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:	This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use.
Dangerous Incompatibility Reactions:	Can react vigorously with oxidizing materials.



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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

8.1. Control parameters

Exposure Limits (United States): OSHA PEL: Not established ACGIH TLV: Not established

8.2. Exposure controls

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

Personal Protective Equipment: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, the work atmosphere may be deficient of oxygen, or any other circumstances where air purifying respirators may not provide adequate protection, for example, when air purifying respirators have a short breakthrough time. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Safety glasses or chemical goggles. Wear safety glasses with side shields and a Face shield Use impervious gloves.

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. Use process enclosures to control the level of dust in the air. Local exhaust ventilation is generally preferred. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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):	Clear Clear to pale yellow liquid.		
Molecular Formula:	Not available.	Molecular Weight:	
Vapor Pressure:	Not applicable	Evaporation Rate:	Not determined
Specific Gravity or Density:	0.957	Vapor Density (air = 1):	Not applicable



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Boiling Point:	450 °F 232 °C	Freezing / Melting Point:	Not applicable Not applicable
Solubility in Water:	Insoluble	Octanol / Water Coefficient:	Not applicable
pH:	Not applicable	Odor Threshold:	Not applicable
Viscosity:	550 cps 77 F	Autoignition Temperature:	Not applicable
Flash Point and Method:	520°F (271°C) (Pensky- Martens Closed Cup PMCC (FEO and LCOR) TCC (Crude Nap Oil))	Flammable Limits:	Not applicable (LEL) – Not applicable (UEL)

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	Not classified as dangerously reactive.
<u>10.2. Chemical stability</u>	Stable
<u>10.3. Possibility of hazardous reactions</u>	Hazardous polymerization will not occur
<u>10.4. Conditions to avoid</u>	No data.
<u>10.5. Incompatible materials</u>	Can react vigorously with oxidizing materials.
<u>10.6. Hazardous decomposition products</u>	Products of incomplete combustion may include CO, CO2 and dense smoke.

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.



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Mutagenicity: No data available.
Additional Toxicity Information: 11TOX_NOTES1

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number: Not applicable

Waste 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.

SECTION 14: Transport information

14.1. UN number Not applicable
14.2. UN proper shipping name Chemicals, n.o.s. (POLYCIN® D-140)
14.3. Transport hazard class(es) Not applicable
14.4. Packing group Not applicable
14.5. Environmental hazards Not applicable
14.6. Special precautions for user Not available.
NA Emergency Guidebook Numbers: Not applicable IMDG EMS: Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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SECTION 15: Regulatory information

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

OSHA Hazards: Irritant. Not applicable.

WHMIS Classification: None

Chemical Inventory Lists:	Status
TSCA:	15TSCA040
EINECS:	Not Listed
Canada(DSL/NDSL):	Not Listed
Japan:	Not Listed
Korea:	Not Listed
Australia:	Not Listed
New Zealand:	Not Listed
China:	Not Listed
Philippines:	Not Listed
Switzerland:	Not Listed

New Zealand GHS Classification: Non classificato da questo paese.

Japan GHS Classification: Non classificato da questo paese.

Korea (MOL) GHS Classification: Non classificato da questo paese.

Australia GHS Classification: Non classificato da questo paese.

Taiwan GHS Classification: Non classificato da questo paese.

Indonesia GHS Classification: Non classificato da questo paese.

SARA 313: 15SARAH010

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Full text of R phrases in Section 3: Not applicable



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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/NDL = Domestic Substances List/Non-Domestic Substances List.
EC = European Community.
EEC = European Economic 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.
MOL = Ministry of Labor.
NEMA = National Emergency Management Agency.
NFPA = National Fire Protection Association.
NIOSH = National Institute of Occupational Safety and Health.
NTP = National Toxicological 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.

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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