SAFETY DATA SHEET

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

1.1. Product identifier **CASPOL* 1962**

Chemical Abstracts Registry No: PROPRIETARY

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

Urethane
Reactive diluent

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.

Disposal Precautionary Statements: Not required.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

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3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (weight %)	EC Number	CLP Inventory/ Annex VI	EU CLP Classification (1272/2008)
Trade Secret	Trade Secret	100 < 5	Not listed 200-289-5	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

Skin Contact: Wash thoroughly after skin contact.

Eye Contact: Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician.

Inhalation: Remove from exposure. If not breathing, give artificial respiration and call a physician.

Ingestion: If swallowed, do not induce vomiting. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Acute: Not expected to be irritating to skin or eyes. Not toxic by oral, dermal or inhalation routes. Not a sensitizer.

Delayed Effects: None known.

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

Note to Physician: No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media: Foam, carbon dioxide, dry chemical, water fog

5.2. Special hazards arising from the substance or mixture

Hazardous Products of Combustion: As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.

Potential for Dust Explosion: Not applicable.

Special Flammability Hazards: Material may burn, but does not ignite readily. Avoid high temperature.

5.3. Advice for firefighters

Basic Fire Fighting Guidance: During a fire, irritating and toxic gases, fumes and vapors may be generated.

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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: 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. 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: Oxidizing materials

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

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8.1. Control parameters

Country	Occupational Exposure Limit
	An impurity that may be present has an occupational exposure limit of 10 mg/m3 as an 8-hour time-weighted average.

Air Monitoring Method: Not required

Derived No Effect Levels (DNELs) – Workers:

Route	DNEL

Derived No Effect Levels (DNELs) – General Population:

Route	DNEL

Predicted No Effect Concentrations (PNECs):

Route	PNEC

8.2. Exposure controls

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

Other Engineering Controls: All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.

Personal Protective Equipment: NIOSH-approved full face chemical cartridge respirator or supplied-air breathing equipment is recommended. Chemical goggles should always be worn if a full face respirator is not used; use face shields if necessary. PPE: Impervious clothing, gloves, and boots.

Respirator Caution: Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.

Thermal Hazards: Not applicable.

Environmental Exposure Controls: 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

Appearance, State & Odor (ambient temperature): Clear yellow-amber liquid with a mild odor.

Molecular Formula:	No data available.	**Molecular Weight:**	No data available.
Vapor Pressure:	0.7 mm Hg @ 25°C	**Evaporation Rate:**	Not determined
Specific Gravity or Density:	No data available.	**Vapor Density (air = 1):**	
Boiling Point:	No data available.	**Freezing / Melting Point:**	No data available.
Solubility in Water:	Not soluble	**Octanol / Water Coefficient:**	No data available.
pH:	No data available.	**Odor Threshold:**	No data available.

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Viscosity:	No data available.	**Autoignition Temperature:**	No data available.
Flash Point and Method:	325°F (163°C) PMCC	**Flammable Limits:**	No data available. (LEL) – (UEL)
Flammability (solid, gas):	No data available.	**Decomposition Temperature:**	No data available.
Explosive Properties:	Not explosive.	**Oxidizing Properties:**	Not an oxidizer.

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	Strong oxidizers.
10.5. Incompatible materials	Oxidizing materials
10.6. Hazardous decomposition products	Products of incomplete combustion may include carbon monoxide, carbon dioxide and dense smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD_{50}:	Oral LD50 (rat) 12600 mg/ kg	Glycerine
Acute Dermal LD_{50}:	Dermal LD50 (rat) > 21900 mg/ kg	Glycerine
Acute Inhalation LC_{50}:	Inhalation LC50 (rat) > 570 mg/m3/1-hour	Glycerine
Skin Irritation:	May cause slight irritation.	
Eye Irritation:	May cause slight irritation.	
Skin Sensitization:	No data available.	
Mutagenicity:	No data available.	
Reproductive / Developmental Toxicity:	No data available.	
Carcinogenicity:	No data available.	
Target Organs:	No data available.	
Aspiration Hazard:	Based on physical properties, not likely to be an aspiration hazard.	
Primary Route(s) of Exposure:	Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.	

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Most important symptoms and effects, both acute and delayed	Not expected to be irritating to skin or eyes. Not toxic by oral, dermal or inhalation routes. Not a sensitizer. Delayed Effects: None known.
Additive or Synergistic effects:	None known.
Additional Toxicity Information:	Toxicology data is for component glycerin, present at < 4%.

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number: Non-Hazardous

Waste Disposal: 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:

14.1. UN number	Not applicable	**14.2. UN proper shipping name**	Chemicals, n.o.s. (CASPOL® 1962)
14.3. Transport hazard class(es)	Not applicable	**14.4. Packing group**	Not applicable
14.5. Environmental hazards	Not applicable		
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.

SECTION 15: Regulatory information

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

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Chemical Inventory Lists:	**Status:**		
USA TSCA:	Listed	**EINECS:**	
Canada(DSL/NDSL):	DSL	**Japan:**	
Korea:	KE-05120, KE-29297	**Australia:**	Listed
China:	Listed 13479	**Philippines:**	Listed
Taiwan:	Listed	**New Zealand:**	Listed
German Water Hazard Classification:	ID Number 116, hazard class 1 - low hazard to waters *(Glycerin)*		
SARA 313:	Not listed.		
New Jersey Trade Secret Information:	54004100000-5229P		

HMIS IV:

NFPA:

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Classification Method: Bridging principle - similar substance

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.

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Revision Details: Revised in all sections to GHS format.

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