



## SAFETY DATA SHEET

(according to (EC) 1907/2006)

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

#### 1.1. Product identifier

COSCAT® 8330R

##### Synonyms:

Not applicable.

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

Urethane catalyst

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

##### Manufacturer Information:

Vertellus LLC  
201 North Illinois Street, Suite 1800,  
Indianapolis, IN 46204

##### Non-Emergency Fax Number:

1-336-854-4058

##### E-Mail Address:

msds@vertellus.com

Non-Emergency Phone Number: 336-292-1781

#### 1.4. Emergency telephone number

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

#### HMIS Rating

HEALTH 2

FLAMMABILITY 1

REACTIVITY 0

#### 2.1. Classification of the substance or mixture

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

Environmental Chronic Category 4

Serious Eye Damage/Eye Irritation Category 2

Skin Corrosion/Irritation Category 2

##### Signal Word:

Warning

##### Hazard Precautions:

H413 - May cause long lasting harmful effects to aquatic life.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

#### 2.2. Label elements

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Hazard Symbols (Pictogram):



### Prevention Precautions:

P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P264 - Wash hands thoroughly after handling.

### First Aid Precautions:

P337+P313 - If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362 - Take off contaminated clothing and wash before reuse.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P321 - Specific treatment (see supplemental information on this label).  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

### Storage Precautions:

Not required.

### Disposal Precautions:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

### Single Exposure Target Organs:

Not applicable

### Repeated Exposure Target Organs:

Not applicable

### (According to Directive 67/548/EEC)

**Symbol:** Xi  
**Risk Phrases:** R53: May cause long term adverse effects in the aquatic environment.  
R36: Irritating to the eyes.  
R38: Irritating to the skin.  
**Safety Phrases:** S36: Wear suitable protective clothing.  
S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

### 2.3. Other hazards



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**Signs and Symptoms of Potential Overexposure:** Contact with eyes causes irritation. Harmful if swallowed. This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure. Not generally an irritant and is only mildly irritating to the skin upon prolonged or repeated contact.

**Primary Route(s) of Exposure:** Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure. Inhalation. Ingestion. Eye contact. Skin contact.

**Medical Conditions Aggravated by Exposure:** Not available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Zinc 2-Ethylhexanoate	136-53-8	70 - 80	205-251-1	N/A	R53
Bismuth(3+) neodecanoate	34364-26-6	5 - 15	251-964-6	Xi	R36- R53
Neodecanoic Acid	26896-20-8	5 - 10	248-093-9	Xi	R36- R38
Diethylene glycol monoethyl ether	111-90-0	3 - 5	203-919-7	Xn	R22
Propanol, [(1-methyl-1,2-ethanediy)bis(oxy)]bis-	24800-44-0	3 - 5	246-466-0	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.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Skin Contact:** Wash with soap and water. Wash thoroughly after skin contact. Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. GET MEDICAL ATTENTION. Contaminated clothing should be discarded in a manner that limits further exposure.

**Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician. If overexposed to fumes or vapors, flush eyes with large amount of water for at least 20 minutes. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician. Immediately transport victim to an emergency care facility

**Ingestion:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention. If swallowed, do not induce vomiting. Get prompt medical attention. Contact a poison information service for immediate/additional treatment advice Do NOT induce vomiting.

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

**Acute:** Contact with eyes causes irritation. Harmful if swallowed. This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure. Not generally an irritant and is only mildly irritating to the skin upon prolonged or

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repeated contact.  
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 Foam Dry chemical Water spray Alcohol foam

### 5.2. Special hazards arising from the substance or mixture

Hazardous Products of Combustion: Carbon monoxide.  
Potential for Dust Explosion: not available  
Special Flammability Hazards: Not applicable.

### 5.3. Advice for firefighters

Basic Fire Fighting Guidance: Wear self-contained breathing apparatus and protective clothing. Normal firefighting procedures may be used.  
Flammability Classification (OSHA): No OSHA Flammability Data found

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. For small spills, use suitable absorbent material and collect for later disposal. For large spills, the area may require



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diking to contain the spill. Material can then be collected (eg., suction) for later disposal. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Remove all ignition sources. Do not allow the spilled product to enter public drainage system or open waterways. Ventilate the area of spill or leak. Wear protective equipment during clean-up. After collection of material, flush area with water.

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: Keep away from strong acids, oxidizing agents, open flames and high temperatures. Keep container closed when not in use. This product should be stored at ambient temperature in a dry, well-ventilated location. Store in a cool dry place. Isolate from incompatible materials.

Dangerous Incompatibility Reactions: Strong alkalies

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: Impervious gloves, boots, and clothing, chemical goggles or face shield where necessary, and a NIOSH approved chemical cartridge respirator or supplied air breathing apparatus. Safety glasses or chemical goggles. Goggles or glasses with side shields. Use chemical goggles, faceshields, boots and impervious clothing, if conditions involve potential for splashing or spraying. Wear goggles and a Face shield Impermeable gloves and safety goggles should be worn at all times Use impervious gloves. Chemical goggles, and impervious clothing, gloves and boots should be considered if extensive splashing is likely.



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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):	Clear, viscous liquid.	Molecular Weight:	Not applicable.
Molecular Formula:	Not applicable.	Evaporation Rate:	Not applicable.
Vapor Pressure:	Not available.	Vapor Density (air = 1):	Not applicable.
Specific Gravity or Density:	1.158	Freezing / Melting Point:	Not available.
Boiling Point:	> 350 °F	Octanol / Water Coefficient:	10.64 (est.)
Solubility in Water:	Not soluble	Odor Threshold:	N
pH:	4.5 (2% solution)	Autoignition Temperature:	Not available.
Viscosity:		Flammable Limits:	Not available. (LEL) – Not available. (UEL)
Flash Point and Method:	Not available. (Not available.) (Not provided)		

#### 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 Materials containing similar structural groups are normally stable
<u>10.3. Possibility of hazardous reactions</u>	Will not occur. Prevent contact with moisture. Moisture will impact product performance. Hazardous polymerization may occur Lubricin N-1 has a flashpoint of 370°F. Avoid temperatures over 350°F.
<u>10.4. Conditions to avoid</u>	Elevated temperatures, sparks, flames
<u>10.5. Incompatible materials</u>	Strong alkalis
<u>10.6. Hazardous decomposition products</u>	Products of incomplete combustion may include CO, CO <sub>2</sub> and dense smoke. Products of incomplete combustion may include CO, CO <sub>2</sub> , NO <sub>x</sub> , and dense smoke.

### SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

<b>Acute Oral LD<sub>50</sub>:</b>	Oral LD50 (rat) > 5100 mg/kg Oral LD50 (rat) 3030 mg/kg Oral LD50 (rat) 2700 mg/kg Oral LD50 (rat) 1920 mg/kg Oral LD50 (rat) 3000 mg/kg
<b>Acute Dermal LD<sub>50</sub>:</b>	Dermal LD50 (rabbit) > 2000 mg/kg Dermal LD50 (rat) > 3640 mg/kg
<b>Acute Inhalation LC<sub>50</sub>:</b>	Inhalation LC50 (4h) (rat) = 5500 mg/cubic meter Inhalation LC50 (4h) (rat) > 5240 MG/M3
<b>Skin Irritation:</b>	Prolonged or repeated contact may cause irritation in some individuals.
<b>Skin Sensitization:</b>	No data available.
<b>Eye Irritation:</b>	Mildly irritating to eyes.
<b>Target Organs:</b>	Eyes Skin Respiratory Tract
<b>Carcinogenicity:</b>	No data available.
<b>Teratogenicity:</b>	No data available.
<b>Reproduction:</b>	No data available.
<b>Neurotoxicity:</b>	No data available.
<b>Mutagenicity:</b>	No data available.
<b>Additional Toxicity Information:</b>	Toxicity data reported are for components of this product.

## SECTION 12: Ecological information

<b><u>12.1. Toxicity</u></b>	48 HR EC50 DAPHNIA MAGNA 47.11 mg/L 96 HR LC50 LEPOMIS MACROCHIRUS 4.9 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 3940 - 4670 mg/L 96 HR LC50 LEPOMIS MACROCHIRUS 10000 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA > 10000 mg/L
<b><u>12.2. Persistence and degradability</u></b>	No data
<b><u>12.3. Bioaccumulative potential</u></b>	This material is NOT soluble in water therefore bioconcentration in aquatic organisms should be significant.
<b><u>12.4. Mobility in soil</u></b>	No data
<b><u>12.5. Results of PBT and vPvB assessment</u></b>	Not available.
<b><u>12.6. Other adverse effects</u></b>	Eco-toxicity data reported are for components of this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods



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**US EPA Waste Number:** Non-Hazardous

**Waste Classification: (per US regulations)** Dispose of by incineration following Federal, State, Local, or Provincial regulations.  
NOTE: Generator is responsible for proper waste characterization. State (USA) hazardous waste regulations may differ substantially from federal (USA) regulations.

**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. (COSCAT® 8330R)

**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 MARPOL 73/78 and the IBC Code** Not applicable.

### SECTION 15: Regulatory information

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

**OSHA Hazards:**      **Health:** Irritant (eye).      **Physical:** Not applicable.

**WHMIS Classification:** Class D, Division 2, Subdivision B: Irritant.

**Chemical Inventory Lists:**      **Status**

**TSCA:** Present

**EINECS:** 205-251-1  
203-919-7  
251-964-6  
246-466-0

**Canada(DSL/NDSL):** DSL

**Japan:** Present

**Korea:** Present

**Australia:** Present

**New Zealand:** Present

**China:** Present





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Philippines:	Present
Switzerland:	Present
New Zealand GHS Classification:	Not classified by this country.
Japan GHS Classification:	Not classified by this country.
Korea (MOL) GHS Classification:	Not classified by this country.
Australia GHS Classification:	Not classified by this country.
Taiwan GHS Classification:	Not classified by this country.
Indonesia GHS Classification:	Not classified by this country.
SARA 313:	This product contains components subject to 313 reporting: Zinc compounds (max 17% Zinc) and glycol ethers (max 5%).
Reportable Quantities:	Glycol ether compounds have special reporting requirements under CERCLA under the category N230. Zinc compounds have special reporting requirements under CERCLA under the category N982.

### 15.2. Chemical safety assessment

Not applicable.

## SECTION 16: Other information

Full text of R phrases in Section 3:	R53: May cause long term adverse effects in the aquatic environment. R36: Irritating to the eyes. R38: Irritating to the skin. R22: Harmful if swallowed.
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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/NDSL = 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.

**Revision Date:** May 27, 2011

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**Issued By:** Regulatory Management Department

**Revision Details:** Added component concentration ranges in section 3. Added component in section 3. Revised classifications in section 2. Added R-phrases to section 15.