

Safety Data Sheet

Material Name: OlyBond 500, Part 2 (Red)

*** Section 1 - Product and Company Identification ***

Manufacturer Information

ITW ER Systems
6900 Bleck Road
Rockford, MN 55373

Phone: 1-800-403-7747

Emergency # 1-800-535-5053 Infotrac

*** Section 2 - Hazards Identification ***

GHS Classification:

Acute Toxicity - Oral Category 4
Acute Toxicity - Dermal Category 4
Acute Toxicity - Inhalation Category 4
Skin Corrosion/Irritation - Category 2
Eye Damage/Irritation - Category 2B
Specific Target Organ Toxicity - Single Exposure Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

Harmful if swallowed, in contact with skin or inhaled.
Causes skin and eye irritation.
May cause respiratory irritation.

Precautionary Statements

Prevention

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dusts/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection

Response

If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

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Storage

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
9082-00-2	Glycerol poly(oxyethylene) poly(oxypropylene) ether	< 70
25322-69-4	Polypropylene glycol	< 20
25265-71-8	Dipropylene glycol	< 10
111-46-6	Diethylene glycol	< 10
68937-54-2	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated	< 1.5

*** Section 4 - First Aid Measures ***

First Aid: Eyes

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

First Aid: Skin

Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

First Aid: Ingestion

If swallowed get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

First Aid: Inhalation

Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None.

Hazardous Combustion Products

During fire, smoke may contain the original material in addition to unidentified toxic and /or irritating compounds.

Extinguishing Media

Water, carbon dioxide, foam or dry powder. Do not use a direct water stream.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Contain spilled material. Absorb spills with inert material.

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Materials and Methods for Clean-Up

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Emergency Measures

Isolate area. Keep unnecessary personnel away. Spill area may pose a slipping hazard.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions

Prevent run-off into sewers, streams or other bodies of water.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Provide appropriate ventilation. Close container after each use. Keep container closed to avoid contamination. Keep out of reach of children.

Storage Procedures

Avoid extreme temperatures. Keep container closed when not in use. Store in a cool dry place.

RECOMMENDED STORAGE TEMPERATURE

Minimum: 12.8 C (55.0 F)

Maximum: 29.4 C (84.9 F)

SHELF LIFE: (in original, sealed containers) 18 months @ 29.4 C

Incompatibilities

Avoid contact with strong oxidizing agents. Avoid contact with strong acids and bases.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Diethylene glycol (203-872-2)

- Austria: 40 ppm STEL [KZW] (4 X 15 min); 176 mg/m³ STEL [KZW] (4 X 15 min)
10 ppm TWA [TMW]; 44 mg/m³ TWA [TMW]
- Denmark: 2.5 ppm TWA; 11 mg/m³ TWA
- Germany: 10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 44 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)
10 ppm TWA MAK; 44 mg/m³ TWA MAK
40 ppm Peak; 176 mg/m³ Peak
- Ireland: 23 ppm TWA; 100 mg/m³ TWA
- Sweden: 10 ppm LLV; 45 mg/m³ LLV
20 ppm STV; 90 mg/m³ STV

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Dipropylene glycol (246-770-3)

Germany: 67 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 8)
100 mg/m3 TWA MAK (inhalable fraction)
200 mg/m3 Peak (inhalable fraction)

Engineering Measures

Local exhaust ventilation may be necessary to control any air contaminants to within their occupational exposure limits during the use of this product.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: Hands

Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. Wash hands thoroughly after handling. Product produces slippery conditions.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes

Wear safety glasses.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Red	Odor:	Slight, sweet odor
Physical State:	Liquid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H2O):	Slight	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	ND
Viscosity:	390-530 cps	Bulk Density:	8.5
Octanol/H2O Coeff.:	ND	Flash Point:	ND
Flash Point Method:	NA	Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND	Burning Rate:	ND
Auto Ignition:	ND		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material. Do not heat.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

High temperatures.

Incompatible Products

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Hazardous Decomposition Products

Decomposition will not occur if handled and stored properly. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

Component Analysis - LD50/LC50

Glycerol poly(oxyethylene) poly(oxypropylene) ether (9082-00-2)

Oral LD50 Rat >10 g/kg; Dermal LD50 Rabbit >5 g/kg

Polypropylene glycol (25322-69-4)

Oral LD50 Rat >2 g/kg

Diethylene glycol (111-46-6)

Oral LD50 Rat 12565 mg/kg; Dermal LD50 Rabbit 11890 mg/kg

Dipropylene glycol (25265-71-8)

Oral LD50 Rat 13300 mg/kg; Dermal LD50 Rabbit 20600 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

May be a skin irritant. A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact may cause eye irritation and injury.

Potential Health Effects: Ingestion

Harmful if swallowed. Incidental ingestion of small amounts of diethylene glycol is not likely to cause any significant health effects. Ingestion of large quantities may result in nausea and vomiting. Changes in urine output appearance and abdominal or back pain are evidence of severe poisoning. Human deaths have occurred at an average ingested amount of 1.2 g/kg.

Potential Health Effects: Inhalation

Avoid breathing vapor or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity

This product is not reported to have any reproductive effects.

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Specified Target Organ General Toxicity: Single Exposure

May cause respiratory tract irritation.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeat exposure specific target organ toxicity effects.

Information on product components:

Diethylene Glycol: High concentrations may lead to central nervous system effects nausea and headaches.

Ingestion of large quantities may be harmful or, in extreme cases, fatal. May also effects on liver and kidney.

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

This product is not reported to have any ectotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Diethylene glycol (111-46-6)

Test & Species

96 Hr LC50 Pimephales promelas

75200 mg/L [flow-through]

48 Hr EC50 Daphnia magna

84000 mg/L

Conditions

Dipropylene glycol (25265-71-8)

Test & Species

24 Hr LC50 Carassius auratus

>5000 mg/L [static]

Conditions

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 14 - Transportation Information ***

IATA Information

Shipping Name: Not Regulated

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ICAO Information

Shipping Name: Not Regulated

IMDG Information

Shipping Name: Not Regulated

* * * Section 15 - Regulatory Information * * *

Regulatory Information

EU MARKING AND LABELLING:

Symbol(s):

None

Risk Phrases:

None

Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Glycerol poly(oxyethylene) poly(oxypropylene) ether 9082-00-2	-	No	DSL	Yes
Polypropylene glycol 25322-69-4	500-039-8	No	DSL	Yes
Diethylene glycol 111-46-6	203-872-2	EINECS	DSL	Yes
Dipropylene glycol 25265-71-8	246-770-3	EINECS	DSL	Yes
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated 68937-54-2	614-822-8	No	DSL	Yes

* * * Section 16 - Other Information * * *

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

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