Safety Data Sheet

OR90WPM, Part B

Section 1 – Identification

Oak Ridge Foam & Coating Systems, Inc 575 Commercial Ave Green Lake, WI 54941 920-294-6800

> Emergency Telephone: (800) 424-9300 Chemtrec 800-625-9577 (Oak Ridge Foam & Coating Systems, Inc) BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS

GHS product identifier: Other means of identification: Product type:	OR90WPM, Part B Not available. Liquid.		
<u>Relevant identified uses of the subst</u> Product use:	Relevant identified uses of the substance or mixture and uses advised againstProduct use:Component of a Polyurethane System		
Supplier's details:	Oak Ridge Foam & Coating Systems, Inc 575 Commercial Avenue Green Lake, WI 54941		
Email address of person responsible for this SDS:	info@oakridgepoly.com		
Emergency telephone number (24h/7 day):	Chemtrec: (800) 424-9300 or (703) 527-3887		
Secti	ion 2 – Hazards Identification		
OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the			
substance or mixture:	Acute Toxicity:	4 (oral)	
	Acute Toxicity:	4 (dermal)	
	Skin corrosion/irritation	2	
	Serious eye damage/eye irritation	2	
	Hazardous to the environment-acute	3	
CUS Label Flomenta	Hazardous to the environment-chronic 3		
GHS Label Elements			

Hazard pictograms:



Signal word:	Danger
Hazard Statements:	Harmful if inhaled Causes skin and eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary Statements: Wear protective gloves. Wear eye or face protection. In case of inadequate ventilation, wear respiratory protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not	
result in classification:	Not available.

На	zardous Components		
Weight	Components	CAS-No.	
Percent			Classification
50-70%	Poly(oxy(methyl-1,2- ethanediyl)), Alpha-(2- aminomethylethyl) omega-(2- aminomethyletoxy	9046-10-0	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3
15-25%	Aluminum	7429-90-5	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3

Section 3 – Hazards Identification

5-25%	Diethyltolvenediamine	68479-98-1	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3
5-20%	Glycerol poly (oxypropylene) triamine	64852-22-8	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3
2-10%	4,4'-methylenebis [N-sec- butylaniline]	5285-60-9	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3
.5-1.5%	Stoddard Solvent	8052-41-3	Acute Toxicity- 4 (oral) Acute Toxicity- 4 (dermal) Skin corrosion/irritation-2 Serious eye damage/eye irritation-2 Hazardous to the aquatic environment (acute)-3 Hazardous to the aquatic environment (chronic)- 3

The specific chemical identity and/ or exact percentage of components (s) have been withheld as a trade secret.

Section 4 – First Aid Measures

Description of first aid measures

Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get Medical attention immediately.
Inhalation:	Move exposed person to fresh air. Get medical attention immediately.
	Treatment is symptomatic for primary irritation or bronchospasm. If breathing
	is labored, oxygen should be administered by qualified personnel.
Skin contact:	After contact with skin, wash immediately with plenty of warm soapy water:
	Remove contaminated clothing and shoes. Continue to rinse for at least 10
	minutes. An MDI study has demonstrated that a polyglycol-based skin cleanser

(such as D-TamTm, PEG-400) or corn oil may be more effective than soap and water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes eye irritation Inhalation: Harmful if inhaled. May cause respiratory irritation. This product is a respiratory irritant and potential respiratory sensitizer: repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. LC50 (rat) : ca. 490 mg/m³ (4 hours) : using experimentally produced respirable aerosol having aerodynamic diameter <5 microns. Skin contact: Causes skin irritation. May cause sensitization by skin contact. Animal studies have shown that respiratory sensitization can be induced by skin contact with known respiratory sensitizers including diisocyanates. These results emphasize the need for protective clothing including gloves to be worn at all times when

handling these chemicals or in maintenance work.

Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:
	pain or irritation
	watering
	redness
Inhalation:	Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
	wheezing and breathing difficulties
	asthma
Skin contact:	Adverse symptoms may include the following:
	irritation
	redness
Ingestion:	No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: this compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanates.

Extinguishing media	
LATING USINING INCUID	
Suitable extinguishing media:	Water spray, dry powder, alcohol-resistant foam, carbon dioxide
Specific hazards arising from the chemical:	Toxic gases/vapors Depolymerization and liberation of the mentioned substances/group of substances.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.
	Section 6 – Accidental Release Measures
Personal precautions,	protective equipment and emergency procedures
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For non-emergency personnel	Provide adequate ventilation. Wear appropriate personal protective equipment
For emergency responder's	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 5 – Fire Fighting Measures

Section 7 – Storage and Handling

Ensure thorough ventilation of stories and work areas. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing and protective equipment before entering eating areas. Hands and/or face should be washed before breaks and at the end of the shift. When using do not eat, drink or smoke. Keep away from sources of ignition-No smoking. Keep container tightly sealed.

Protection against fire and explosion:

Prevent electrostatic charge- source of ignition should be kept well clear- fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Section 8 – Exposure Controls/Personal Protection

Advice on system design: Provide local exhaust ventilation to control vapors/mist.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece /cartridge combination.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) is splashing hazard exists.

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Store work clothing separately.

	Section 5 Thysical Toperates
Physical state:	Liquid
Color:	Light yellow
Odor:	Negligible
pH:	Not available
Melting Point/Freezing Point	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive	Not available
(flammable) limits:	
Vapor pressure:	Not available
Vapor density:	1.06 @ 77°F
Relative density:	1 g/cm³
Freezing Point:	Approximately 60°F

Section 9 – Physical Properties

Solubility in water:	Not available
Partition coefficient: n-ctanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Flash Point:	Approximately 360°F

Section 10 – Stability and Reactivity				
Reactivity	Under normal conditions of storage and use, hazardous reactions will not occur.			
Stability	Stable under normal conditions of use and storage.			
Conditions to avoid	Void excessive heats. Protect from atmospheric moisture. Replace outage with inert dry nitrogen.			
Incompatible materia	Is Oxidizing material			
Hazardous Decomposition products	Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Ammonis			

Section 11 – Toxicological Information

Acute toxicity			
Product/ingredient	Endpoint	Species	Result
name			
Poly(oxy(methyl-1,2-	LD50 Dermal	Rat	2,885 mg/kg
thanediyl)), Alpha-(2-			2,980 mg/kg
aminomethylethyl)omega-	LD50 Oral	Rabbit	
(2-aminomethylethoxy)			
White Spirit	LD50 Oral	Rat	2,000 mg/kg
Diethyltovenediamine	LD50 Oral	Rat	738 mg/kg
	LD50 Dermal	Rat	2,000 mg/kg
Glycerol poly	LD50 Oral	Rat	2,690 mg/kg
(oxypropylene) triamine	LD50 Dermal	Rabbit	12,500 mg/kg
4,4'-methylenebis[N-sec-	LD50 Oral	Rat	1,380 mg/kg
butylaniline]	LD50 Dermal	Rabbit	3,090 mg/kg
Stoddard Solvent	LD50	No data available	No data available

Conclusion/Summary

Skin

Based on available data, the classification criteria are not met.

Eyes

Causes serious eye irritation

Respiratory

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Cause damage to organs through prolonged or repeated exposure

Aspiration hazard

Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation

May cause respiratory tract irritation

Symptoms/injuries after skin contact

Harmful, in contact with skin. May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and teat production, with marked redness and swelling of the conjunctive.

Symptoms/injuries after ingestion

Harmful is swallowed. May cause stomach distress, nausea or vomiting

Section 12 – Ecological Information

Toxicity

Ecology- general: May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Persistence and degradability: No additional information available.

Bioaccumulative potential:

Bioaccumulative potential: No additional information available

Mobility is soil

Ecology - soil

Other adverse effect:

Effect on ozone layer: No additional information available. Effect on global warning: No known ecological damage caused by this product.

Section 13 – Disposal Consideration

Waste treatment methods

Waste disposal recommendations: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Section 14 – Transportation Information

Proper shipping name

DOT:	Not regulated.
TDG:	Not regulated.
IMDG:	Not regulated.
IATA:	Not regulated.

U.S Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

US Toxic Substance Control Act: All material ate listed on the TSCA inventory

SARA Section 3311/312 Hazard Categories:

Acute health hazard, chronic health hazard, reactivity hazard.

Components: None

US EPA Emergency Planning and Right-to-Know Act (EPCRA) ASARA Title 111 Section 313 Toxic Chemical (40 CFR 372.65) -Supplier Notification Required:

Components: None

US EPA Resource Conservation and Recovery Act (RCRA) Composite list of Hazardous Waste and Appendix V111 Hazardous Constituents (40 CFR 216):

If discarded in its purchased form, this product would not be hazardous waste wither by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazard waste. (40CFR 261.20-24)

State Right-to-Know Information

The following chemicals are specifically listed by individual states' other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements/ For details on your regulatory requirements you should contact the appropriate agency in your state.

This product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

California Prop. 65:

The following detectable components of this product are substances, or belong to class of substance, know to the State of California to cause cancer and/or reproductive toxicity.

Section 16 – Other Information

NFPA 704M Rating Health = 2 Fire = 1 Reactivity = 0 Other= 0=Insignificant 1= Slight 2= Moderate 3= High 4= Extreme

<u>HMIS Rating</u> Health = 2* Flammability = 1 Physical Hazard= 1 0= Minimal 1=Slight 2= Moderate 3= Serious 4= Severe *= Chronic Health Hazard Disclaimer: This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Oak Ridge Foam & Coating Systems, Inc. Oak Ridge Foam & Coating Systems, Inc. assumes no legal responsibility for use of or reliance upon the information in this MSDS. 11-2016

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