Safety Data Sheet

OR-E41, Part B
Primer

Section 1 – Identification

Oak Ridge Foam & Coating Systems, Inc
575 Commercial Ave
Green Lake, WI 54941

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

Section 2 – Hazards Identification

GHS Classification

Skin Irritation	Category 2
Serious Eye Damage	Category 1
Skin Sensitization	Category 1

GHS Label Elements

Hazard pictograms:

Signal word: Danger

Hazard Statements: Causes skin irritation.
Causes serious eye irritation.
May cause Allergic skin reaction

Precautionary Statements:

Prevention:
Wash thoroughly after handling
Wear protective glove/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the work place.

Response:
IF ON SKIN: Wash with plenty of soap and water.
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.
If skin irritation or rash occurs, get medical advice/attention.

Disposal:
Dispose of contents/container to be specified in accordance with regulations.
Hazards Not Otherwise Classified:
Severe eye irritant
Moderate skin irritant
Moderate respiratory irritant
May cause sensitization by skin contact
Risk of serious damage to eyes

Section 3 – Hazards Identification

Chemical Name	Dangerous Compound	CAS #	% by Weight
Propylene Glycol Methyl Ether		107-98-2	<5%
Titanium Dioxide	Carc. 2, H351	13463-67-7	<10%
Black Iron Oxide		Trade Secret	<3%
Pentaethylene Hexamine		4067-16-7	<1%
Acetic Acid		64-19-7	<1%
Tetraethylenepentamine		112-57-2	<1%
Diethylenetriamene		111-40-0	<1%

Section 4 – First Aid Measures

General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses.

Skin Contact: Immediately remove contaminated clothing and any extraneous chemical. If possible, do so without delay. Take contaminated clothing and shoes immediately.

NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Ingestion: Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen May be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Most Important Symptoms/Effects (Acute & Delayed): Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: sore throat, adverse eye effects (such as conjunctivitis or corneal damage), eye disease, skin disorders and allergies, adverse skin effects (such as rash, irritation and corrosion) adverse respiratory effects (such as cough, tightness of chest or shortness of breath) and asthma.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand, lime stone powder.

Specific Hazards: Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Special Protective Equipment for Fire Fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental Release Measures

Personal Precautions: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental Precautions: Conduct a dike to prevent spreading.

Methods for Cleaning Up: Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional Advice: Open enclosed spaces to outside atmosphere. Evacuate area and do not approach spilled product. If possible, stop flow of product.

Section 7 – Storage and Handling

Handling: Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well ventilated areas. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Measures/Precautions: Do not store in reactive metal containers.

Section 8 – Exposure Controls/Personal Protection

Engineering Measures: Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal Protective Equipment:

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.

Hand Protection: Butyl rubber, impervious gloves. The break through time of the selected glove must be greater than the intended use period.

Eye Protection: Chemical resistant goggles must be worn.

Skin and Body Protection: Long sleeve shirts and trousers without cuffs.

Environmental Exposure Controls: Construct a dike to prevent spreading.

Special Instructions for Protection and Hygiene: Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers.

Exposure Limit(s)

Acetic Acid	Time weighted average (TWA): ACGIH	5 ppm	-
Acetic Acid	Short term exposure limit (STEL): ACGIH	10 ppm	-
Acetic Acid	Recommended exposure limit (REL): NIOSH	5 ppm	15mg/m3
Acetic Acid	Short term exposure limit (STEL): NIOSH	10 ppm	25mg/m3
Acetic Acid	Permissible exposure limit: OSHA Z1	5 ppm	15mg/m3
Acetic Acid	Time weighted average (TWA) OSHA Z1A	5 ppm	15mg/m3

Acetic Acid	Time weighted average (TWA) Permissible exposure limit (PEL) US CA OEL	5 ppm	15mg/m3
Acetic Acid	Ceiling limit value: US CA OEL	20 ppm	-
Acetic Acid	Short term exposure limit (STEL) US CA OEL	10 ppm	25mg/m3
Acetic Acid	Time weighted average (TWA) TN OEL	5 ppm	15mg/m3
Tetraethylene-pentamine	Time weighted average (TWA): WEEL	1 ppm	2mg/m3
diethylenetriamine	Time weighted average (TWA) ACGIH	1 ppm	-
diethylenetriamine	Recommended exposure limit (REL) NIOSH	1 ppm	2mg/m3
diethylenetriamine	Time weighted average (TWA) OSHA Z1A	1 ppm	2mg/m3
diethylenetriamine	Time weighted average (TWA) Permissible exposure limit (PEL) US CA OEL	1 ppm	2mg/m3
diethylenetriamine	Time weighted average (TWA) TN OEL	1 ppm	2mg/m2

Section 9 – Physical Properties

Form:	Liquid
Color:	Gray color
Odor:	Ammonia like
Ph:	Alkaline
Viscosity:	42 (±5) seconds, #2 Zahn cup at 77°F
Specific Gravity:	1.29 Gram/Milliliter
Weight/Gallon:	10.77 (±0.25) lbs./Gallon
Melting point/range:	No data available
Boiling point range:	212 deg. F (100 deg. C)
Flash point:	> 212 deg. F (>100 deg. C)
Evaporation rate:	No data available
Flammability (solid/gas):	Not applicable
Upper/Lower explosion/Flammability Limit:	Not applicable
Vapor Pressure:	15.00 mmHg at 70 deg. F (21°C)
Water Solubility:	No data available
Relative Vapor density:	Not applicable
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	> 150 deg. C
Decomposition Temperature:	No data available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: No data available.

Materials to Avoid: Mineral acids, bases and oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (CO2).

Possibility of Hazardous Reactions: No data available.

Section 11 – Toxicological Information

Information on Toxicological Effects:

Likely routes of exposure:

Eye effects: Severe eye irritation

Skin effects: Causes skin irritation

Inhalation effects: May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion effects: No data available

Symptoms: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols. May cause sore throat, adverse eye effects (such as conjunctivitis or corneal damage), eye disease, skin disorders and allergies, adverse skin effects (such as rash, irritation or corrosion), adverse respiratory effects (such as cough, tightness of chest or shortness of breath) and asthma.

Acute Toxicity:

Acute Oral Toxicity: LD50: 2,960 mg/kg. Species: Rat

Inhalation: No data is available

Inhalation: (Components)

Acetic Acid: LC50 (1 hour): 39 mg/L, Species: Rat

Diethylenetriamine: LC50 (4 hours): >0.07 - < 0.3, Species: Rat

Acute Dermal Toxicity: LD50: >5,000 mg/kg, Species: Rabbit, Method: Estimated

Skin corrosion/Irritation: Moderate skin irritation

Serious Eye damage/Eye irritation: Severe eye irritation

Sensitization: May cause sensitization by skin contact.

Chronic toxicity of effects from long term exposure:

Carcinogenicity	No data available
Reproductive toxicity	No data available
Germ cell mutagenicity	No data available
Specific target organ systemic toxicity (single exposure)	No data available
Specific target organ systemic toxicity (Repeated exposure)	No data available
Aspiration hazard	No data available

Delayed and Immediate effects and Chronic effects from short and long-term exposure:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Repeated or prolonged contact causes sensitization, asthma and eczemas. Adverse eye effects (such as conjunctivitis or corneal damage), eye disease, skin disorders and allergies, adverse skin effects (such as rash, irritation, or corrosion) adverse respiratory effects (such as cough, tightness of chest or shortness of breath) and asthma.

Section 12 – Ecological Information

Eco toxicity effects:

Aquatic toxicity: No data is available on the product itself.

Toxicity to fish: Components

Acetic Acid: LC50 (96 hours): 75 mg/L Species: Bluegill, sun fish (Lepomis macrochirus)

Acetic Acid: LC50 (96 hours): 79 mg/L Species: Fathead minnow (Pimephales Promelas)
LC50: 251 mg/L: Species: Fish

Toxicity to daphnia: Components

Acetic Acid: EC50 (48 hours): 65 mg/L Species: Daphnia

Toxicity to other organisms: No data available

Persistence and Degradability:

Biodegradability: No data is available on the product itself.

Mobility: No data available.

Bioaccumulation: No data is available on the product itself.

Bioaccumulation: Components

Acetic Acid: Negligible bio accumulation potential.

Section 13 – Disposal Consideration

Waste Disposal Method:
Material that cannot be used or chemically reprocessed must be disposed of at an approved facility in accordance with local government regulations. Completely discharge containers in accordance with local, state and federal regulations.

Section 14 – Transportation Information

DOT/IATA/IMDG/TDG: Not considered a dangerous good.

Further Information: Not dangerous goods. The transportation information is not intended to convey all specific regulatory data relating to this material.

Section 15 – Regulatory Information

Toxic Substance Control Act (TSCA) 12(b) Components:

Country	Regulatory list	Notification
USA	TSCA	Included on inventory
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on inventory
Australia	AICS	Included on inventory
Japan	ENCS	Included on inventory
South Korea	ECL	Included on inventory
China	SEPA	Included on inventory
Philippines	PICCS	Included on inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard classification: No SARA hazards.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above "de minimums" level: None

U.S. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other harm.

California Prop. 65: Reference to Titanium dioxide is based on unbound respirable particles and is not generally applicable to products as supplied.

Section 16 – Other Information

The method of hazard communication for Oak Ridge Foam & Coating Systems, Inc is comprised of Product Labels and Safety Data Sheets.

Contact:	Product Safety Department
Telephone:	800-625-9577
Version Date:	01/18/2016

This information is furnished without warranty, expressed or implied. This information is believed to be accurate to the best knowledge of Oak Ridge Foam & Coating Systems, Inc. The information in this SDS relates only to the specific material designated herein. Oak Ridge Foam & Coating Systems, Inc assumes no legal responsibility for use of or reliance upon the information in this SDS.