
Safety Data Sheet

OR-E41, Part A 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 Label Elements

Hazard pictograms:



Signal word: Warning

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

Precautionary Statements: **Prevention:**
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
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.
Avoid release to the environment.
Response:
If swallowed get medical attention
Rinse mouth
If on skin, wash with plenty of soap and water.
If skin irritation occurs, get medical attention.
Take off contaminated clothing and wash before reuse.
If in eyes, rinse cautiously with water for several minutes

If eye irritation persists, get medical attention
If skin irritation or rash occurs, get medical attention
Collect spillage

Section 3 – Hazards Identification

Weight Percent	Components	CAS-No.
60-80%	4,4' Isopropylidenediphenol Epichlorohydrin Co Polymer	25068-38-6
<10%	Benzyl Alcohol	100-51-6
<5%	THFA	97-99-4

Section 4 – First Aid Measures

General Information: In case of accident or if you feel unwell, seek medical advice.

Inhalation: Provide fresh air.

Skin Contact: Wash with plenty of water and soap. In the event of a visible skin change or other complaints, seek medical advice.

Eye Contact: Rinse immediately with plenty of water. Seek medical advice in case of continued irritation.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice.

Notes to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Solidified waxes or hot melts may be removed from small areas by softening the material using a cotton pad saturated with olive oil or medicinal grade paraffin oil before treating for burns.

Section 5 – Fire Fighting Measures

Extinguishing Media: Water Spray, dry chemical, carbon dioxide or foam.

Fire Fighting Instructions: Fire fighters and others who may be exposed to products of combustion should wear full fire-fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire-fighting equipment should be thoroughly decontaminated after use.

Hazardous Thermal Decomposition Products: May include: carbon dioxide, carbon monoxide, halogenated compounds, carbon oxides.

Section 6 – Accidental Release Measures

In Case of Spill or Leak: Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of SDS. Avoid runoff into storm sewers and ditches which lead to waterways.

Methods for Containment and Clean up: Take up mechanically and dispose of according to local, state and federal regulations. For small amounts, absorb with a liquid binding material such as diatomaceous earth and dispose of according to local, state and federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7 – Storage and Handling

Handling: Put on appropriate personal protective equipment (see section 8 of S.D.S.). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in the original container protected from direct sun light in a dry, cool and well-ventilated area away from incompatible materials (see section 10 of S.D.S.) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Applications: Metal

Section 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits: No exposure standard allocated. Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, work place atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods in determining hazardous substances will also be required.

Engineering Measures: Use only with adequate ventilation. 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.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the work place. Wash contaminated clothing before reusing. Ensure that wash stations and safety showers are close to the work place station.

Respiratory: Use a properly fitted, air purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to break through for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the glove cannot be accurately estimated.

Eyes:

Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, chemical splash goggles should be worn unless the assessment suggests a higher degree of protection.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 – Physical Properties

Appearance:	Clear, viscous liquid.
Odor:	Mild
Ph.:	N/A
Viscosity:	32 seconds (+/-5 second), # 3 Zahn cup @ 77 F
Specific Gravity:	1.13 Grams/milliliter
Weight/Gallon:	9.44 (±.25) Lbs./Gallon
Melting/Freezing point:	Not available
Initial boiling point and range:	260 degrees, C
Flash Point:	Pensky-Martens closed cup: 251°C (ASTM D 93)
Evaporation rate:	Not available
Flammability:	Burning time and rate- Not available.
Upper/Lower flammability or explosive limits:	Not available
Vapor pressure:	0.03 mbar @ 77°F
Vapor density:	Not available
Solubility in water:	Negligible
Partition coefficient: n-octanal/water:	Not available
Auto ignition temperature:	Not available

Section 10 – Stability and Reactivity

Reactivity: This material is chemically stable under specified conditions or storage, shipment and/or use.

Chemical Stability: This product is stable.

Conditions to Avoid: No specific data.

Incompatible Materials: No specific data.

Hazardous Decomposition Products: Decomposition products may include the following materials:
Carbon Oxide

Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions of storage and use.

Other Hazards: Reacts with considerable heat release with some curing agents.

Section 11 – Toxicological Information

Acute Toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
4,4' Isopropylidenediphenol-Epichlorohydrine Copolymer	LD 50 Oral	Rat	11,400 mg/kg	-

Conclusion/Summary: Not Available

Chronic Toxicity: Not Available

Irritation/Corrosion

Product/Ingredient Name	Result	Species	Score	Exposure	Observation
4,4'-Isopropylidenediphenol-Epichlorohydrine Copolymer	Skin – Erythema/Escher 404 Acute Dermal Irritation/Corrosion	Rabbit	1.5-2		
	Skin – Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	1.0-1.5		
	Eyes – 405 Acute Eye Irritation/Corrosion	Rabbit	0		
	Eyes – Redness of the conjunctivae	Rabbit	0.7		
	Skin – Moderate Irritant	Rabbit		24 hours	
	Skin – Severe Irritant	Rabbit		24 hours	
	Eyes – Mild Irritant	Rabbit			

Conclusion / summary:

Skin: Not available

Eyes:

Respiratory: Not Available

Sensitization: Not Available

Conclusion / Summary:

Skin: Not Available

Respiratory: Not Available

Carcinogenicity:

Conclusion / Summary: Not Available

Mutagenicity:

Conclusion / Summary: Not Available

Teratogenicity:

Conclusion / Summary: Not Available

Reproductive toxicity

Product/Ingredient Name	Maternal Toxicity	Fertility	Species	Dose	Exposure
4,4'-Isopropylidenediphenol-Epichlorohydrine Co Polymer					

Remarks: No adverse reproductive effects were observed in an O.E.C.D. Test Guideline no.416 GLP two-generation rat oral gavage study conducted up to a high dose level of 750 mg/kg/day that resulted in adult body weight Decrements.

Section 12 – Ecological Information

Toxicity:

Eco toxicity: No known significant effects or critical hazards.

Aquatic Eco toxicity:

Product/Ingredient Name	Result	Species	Exposure
4,4'Isopropylidenediphenol-Epichlorohydrine Copolymer	Acute LC50 1.3 mg/l-203 Fish, Acute Toxicity test	Fish-Fish	96 hours
	Acute EC50 2.1 mg/l-202 Daphnia sp. Acute Immobilization Test & Reproduction Test	Aquatic invertebrates. Water flea	48 hours
	Acute NOEC 0.3 mg/l-211 Daphnia Magna Reproduction Test	Aquatic invertebrates. Water flea	21 days
	Acute LC50>11 mg/l-	Aquatic plants-Algae	72 hours

Conclusion / Summary: Not available

Persistence and Degradability:

Conclusion / Summary: Not Available

Partition Coefficient:

N-octanol / water: Not Available

Other Adverse Effects: No known significant effects or critical hazards.

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

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations:

Regulatory Information	UN number NA Number	Proper Shipping Name
CFR		Non-regulated
TDG		Non-regulated
IMO/IMDG		Non-regulated
IATA (Cargo)		Non-regulated

United States:

HCS Classification: Irritating material
Sensitizing material
Target organ effects.

U.S. Federal Regulation:

United States-TSCA 12(b) - Chemical Export Notification:

None required.

United States-TSCA 5(a) 2- Final significant New Use Rules:

Not listed

United States-TSCA 5(a) 2- Proposed Significant New Use Rules:

Not listed

United States-TSCA 5(e)- Substance Consent Order:

Not listed

SARA 311/312 MSDS Distribution-chemical inventory-Hazard Identification:

Immediate (acute) health hazard, Delayed (chronic) health hazard.

California Prop. 65:

Not listed

IARC (International agency for Research on Cancer):

Not listed

TLV (Threshold Limit Value established by ACGIH):

Not listed

NIOSH-Ca (National Institute for Occupational Safety and Health):

Not listed

United States Inventory (TSCA 8b):

All components are listed or exempted.

Canada:

WHMIS (Canada):

Class D-2B: Material causing other toxic effects (Toxic)

Canadian lists:

Canadian NPRI;

NONE REQUIRED

CEPA Toxic Substance:

None required

Canada inventory:

All components are listed or exempted.

International regulations: International Lists:

Australia Inventory (AICS):

All components are listed or exempted.

Japan Inventory:

All components are listed or exempted.

China Inventory (IECSC):

All components are listed or exempted.

Korea Inventory:

All components are listed or exempted.

New Zealand Inventory (NZIoC):

All components are listed or exempted.

Philippines Inventory (PICCS):

All components are listed or exempted.

United States Inventory (TSCA 8b):

All components are listed or exempted.

Taiwan Inventory (CSNN):

Not determined.

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: 1/18/2016

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