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## Safety Data Sheet

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# OR93HS High Solid Silicone

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### Section 1 – Identification

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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

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### Section 2 – Hazards Identification

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#### GHS Classification

Skin Irritation	Category 2
Eye Irritation	Category 2A
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity	Category 3 (Respiratory Irritation)
Chronic Aquatic Toxicity	Category 3

#### GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard Statements: Causes skin irritation  
Causes serious eye irritation  
May cause and allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects

Precautionary Statements: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF exposed or concerned: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.  
 Specific treatment (See Section 4 of this SDS).  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 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 advice/attention.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 Do NOT induce vomiting.

**Storage:**

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

**Disposal:**

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

**Section 3 – Hazards Identification**

**Hazardous Components**

Hazardous Ingredients	CAS #	EINECS #	ICSC #	WT %	Classification
Nepheline Syenite	37244-96-5	609-369-8	Not listed	15 – 30%	STOT SE CAT 3 (RESP IRRIT)
2-Butanone, O, O', O'' – silanetetrayltetraoxime	34206-40-1	251-882-0	Not listed	<1%	SKIN IRRIT CAT 2, EYE IRRIT. CAT 2A, SKIN SENS CAT 1
Liquid Silicone Polymer	*Trade Secret	Not listed in ESIS	Not listed	45 - 60%	NOT CLASSIFIED
Titanium Dioxide	13463-67-7	236-675-5	0338	5 – 15%	CARC. CAT 2
2-Butanone, O,O', O''- (Methylsilyldiylne) Trioxime	22987-54-8	245-366-4	Not listed	2 – 7%	SKIN IRRIT CAT 2, EYE IRRIT. CAT 2A, SKIN SENS CAT 1
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	0310	5 – 15%	REPR. CAT 2, AQUATIC CHRONIC CAT 2
Silica, Amorphous, fumed, crystal-free	112945-52-5	601-216-3	Not listed	1 – 3%	SKIN IRRIT CAT 2, EYE IRRIT. CAT 2A, STOT SE CAT 3 (RESP IRRIT)
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					



## Section 7 – Storage and Handling

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Keep container tightly closed and in a dry and cool place.

## Section 8 – Exposure Controls/Personal Protection

### Exposure Limits/Guidelines

Chemical Name	CAS #	ACGIH TWA	OSHA TWA	WEEL
Nepheline Syenite	37244-96-5	Not listed	Not listed	Not listed
2-Butanone, O, O', O'' – silanetetrayltetraoxime	34206-40-1	Not listed	Not listed	Not listed
Liquid Silicone Polymer	Non-Hazardous	Not listed	Not listed	Not listed
Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
2-Butanone, O, O', O''- (Methylsilyldiylidene) Trioxime	22984-54-9	Not listed	Not listed	Not listed
Octamethylcyclotetrasiloxane	556-67-2	Not listed	Not listed	Not listed
Silica, Amorphous, fumed, crystal-free	112945-52-5	Not listed	Not listed	Not listed

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## Section 9 – Physical Properties

<b>PHYSICAL STATE:</b>	Liquid
<b>APPEARANCE &amp; ODOR:</b>	Viscous liquid in various colors including white, tan, light gray and dark gray with a slight odor.
<b>ODOR THRESHOLD (PPM):</b>	Not Available
<b>FLASH POINT:</b>	128°F (This product has been tested to the ASTM D-4206 Standard and determined that it does not sustain combustion)
<b>AUTOIGNITION TEMPERATURE:</b>	Not Established
<b>VAPOR PRESSURE (mmHg):</b>	Not Available
<b>VAPOR DENSITY:</b>	Not Available
<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>BOILING POINT (C°):</b>	Not Available

<b>FREEZING POINT (C°):</b>	Not Available
<b>pH:</b>	Not Available
<b>SPECIFIC GRAVITY 20°C: (WATER =1)</b>	Not Available
<b>SOLUBILITY IN WATER (%)</b>	Not Available
<b>EXPLOSIVE PROPERTIES:</b>	Not Available
<b>OXIDISING PROPERTIES:</b>	Not Available

### Section 10 – Stability and Reactivity

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces noxious gases such as CO, CO<sub>2</sub>, and others.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Heat and sources of ignition.

### Section 11 – Toxicological Information

**TOXICITY DATA:** Toxicity data is available for this product:

CAS# 13463-67-7 LD50 Acute Oral	>10000 mg/kg	Rat
CAS# 112945-52-5 LD50 Acute Oral	3160 mg/kg	Rat
CAS# 556-67-2 LD50 Inhalation	>12.7 mg/kg/4Hr	Rat
CAS# 556-67-2 LD50 Acute Oral	1540 mg/kg	Rat
CAS# 556-67-2 LD50 Acute Dermal	>2400 mg/kg	Rat

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Skin Irritation Category 2
Serious eye damage/irritation	Eye Irritation Category 2A
Respiratory or skin sensitization	Skin Sensitization Category 1
Germ Cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Carcinogenicity Category 2
Reproductive toxicity	Reproductive Category 2
STOT-single exposure	Specific Target Organ Toxicity – Single Exposure (Respiratory Irritation)
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

**SUSPECTED CANCER AGENT:** One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are considered to be, or suspected to be a cancer-causing agent by these agencies.

Titanium dioxide (13463-67-7)

ACGIH: A4 – Not classifiable as a Human Carcinogen

NIOSH: Potential occupational carcinogen

IARC: Monograph 93 posted, Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

**SENSITIZATION OF PRODUCT:** This product is considered a skin sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No reported information concerning the effects of this product and its components on the human reproductive system.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Causes respiratory irritation.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** None known

**ASPIRATION HAZARD:** None

## Section 12 – Ecological Information

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### **ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**TOXICITY:** No specific data is currently available on this product's effects on aquatic life, however release of this product may have long term effects on the aquatic environment.

Specific Component Data:

Octamethylcyclotetrasiloxane (556-67-2)

Test & Species Conditions

96 Hr LC50 Brachydanio rerio >500 mg/L

96 Hr LC50 Lepomis macrochirus >1000 mg/L

24 Hr EC50 Daphnia magna 25.2 mg/L

**PERSISTENCE AND DEGRADABILITY:** No specific data available on this product.

**BIOACCUMULATIVE POTENTIAL:** No specific data available on this product.

**MOBILITY IN SOIL:** No specific data available on this product.

**RESULTS OF PBT AND vPvB ASSESSMENT:** No specific data available on this product.

**OTHER ADVERSE EFFECTS:** No specific data available on this product.

**WATER ENDANGERMENT CLASS:** Not believed to be water endangering in accordance with EU Guideline 91/155-EWG. At present there are no ecotoxicological assessments for this product.

## Section 13 – Disposal Consideration

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**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**RCRA WASTE CODE:** None listed

**EU WASTE CODE:** Not Listed

## Section 14 – Transportation Information

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**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

This product has been tested to the ASTM D-4206 Standard and determined that it does not sustain combustion. As result it is exempt from regulations when shipped ground or rail within the U.S.A.

**PROPER SHIPPING NAME:** Non-Regulated when shipped ground or rail with U.S.A.

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** None

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2016):** None

**MARINE POLLUTANT:** This product's ingredients that are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

**PROPER SHIPPING NAME:** Flammable Liquid, n.o.s.

**HAZARD CLASS NUMBER and DESCRIPTION:** Class 3 Flammable

**UN IDENTIFICATION NUMBER:** UN1993

**PACKING GROUP:** PGIII

**DOT LABEL(S) REQUIRED:** Flammable class 3

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is classified as Dangerous Goods by the International Maritime Organization.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):**

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

Harmonized Tariff Code                      Not Listed

## **Section 15 – Regulatory Information**

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### **UNITED STATES REGULATIONS**

**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

#### **SARA 311/312:**

Acute Health: Yes                      Chronic Health: Yes                      Fire: No                      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product.

The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

#### **CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):**

**WARNING** This product contains Titanium Dioxide which is known to the State of California as a cancer hazard if in respirable form.

### **CANADIAN REGULATIONS:**

**CANADIAN DSL/NDSL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Classified per WHMIS 2015

### **EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

#### **EU LABELING AND CLASSIFICATION:**

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

#### **AUSTRALIAN INFORMATION FOR PRODUCT:**

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS:** All components of this product are listed or exempt from listing on the AICS.

**STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS:** Not applicable.

#### **JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

#### **INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or exempt from listing
Australian Inventory of Chemical Substances (AICS):	Listed or exempt from listing
Korean Existing Chemicals List (ECL):	Listed or exempt from listing
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or exempt from listing
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or exempt from listing
Swiss Giftlist List of Toxic Substances:	Listed or exempt from listing
U.S. TSCA:	Listed

## Section 16 – Other Information

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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:	04/02/2015
SDS Version:	1.0

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