



MATERIAL SAFETY DATA SHEET

Chemtrec 24-Hour Emergency Telephone

Domestic North America
International

(800)424-9300
(800)527-3887

1. Product and Supplier Identification

Product Name: ORCA FREE-100 MOLD RELEASE

Product Number: 25240020F

Date of Prep: 01/20/2011

Product Type: Mold Release

Supplier: Orca Composites
24 S. Idaho St
Seattle, Wa 98134
(206)782-0660

2. Composition/Information On Ingredients

| Hazardous Component | % (w/w) | CAS Number |
|----------------------------|----------|-------------|
| Hydrotreated heavy naphtha | 60 - 100 | 64742-48-9 |
| Dibutyl ether | 10 - 30 | 142-96-1 |
| Naphtha | 1 - 5 | 64741-66-8 |
| Octane | 1 - 5 | 111-65-9 |
| Proprietary Resin | 1 - 5 | Proprietary |

Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

3. Hazards Identification

Physical state: Liquid

Color: Colorless

Odor: Mild, Solvent

Personal Protection: See MSDS Section 8

WARNING: **FLAMMABLE LIQUID AND VAPOR.**
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.
ASPIRATION HAZARD IF SWALLOWED.
CAN ENTER LUNGS AND CAUSE DAMAGE.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

HIMS: **HEALTH: *1**
FLAMMABILITY: 3
PHYSICAL HAZARD: 0

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Vapors and mists will irritate nose and throat and possibly eyes. High vapor concentrations (greater than approximately 1000 ppm) may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Skin contact: Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis.

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Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Aspiration may occur during swallowing or vomiting, resulting in lung damage. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

Existing conditions aggravated by exposure:

Dermatitis. Eczema. Other pre-existing skin conditions. Asthma. Other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity).

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

4. First Aid Measures

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: Keep individual calm. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Never give anything by mouth to an unconscious person. Get immediate medical attention. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

Notes to physician: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

5. Fire Fighting Measures

Flash point: 31 °C (87.8 °F) Tagliabue closed cup

Autoignition temperature: > 200 °C (> 392°F) (value for solvent)

Flammable/Explosive limits - lower: Not available

Flammable/Explosive limits - upper: Not available

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high volume water jet.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. Keep personnel upwind of fire.

Unusual fire or explosion hazards: Vapors may form explosive mixtures with air. Do not handle or store near an open flame, heat or other sources of ignition. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a significantly high level, sparks can form that may ignite vapors of flammable liquids.

Hazardous combustion products: Oxides of carbon. Irritating organic vapours. Acrid smoke and fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways. Prevent further leakage or spillage if safe to do so. Advise authorities if product has entered or may enter sewers, water sources or extensive land areas. This product is insoluble in water and will float on surface.

Clean-up methods: Remove all sources of ignition. Ventilate area. Wear suitable protective clothing, gloves and eye/face protection. Keep upwind of the spilled material and isolate exposure. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal.

7. Handling and Storage

Handling: During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Make sure containers are properly grounded before use or transfer of material. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.

Storage: For safe storage, store at or below 48.8 °C (119.8 °F)

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

8. Exposure Controls, Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|-------------------------------------|-------------|--------------------------------------|-----------|-------------|
| Hydrotreated heavy naphtha | None | None | None | 196 ppm TWA |
| Dibutyl ether | None | None | None | None |
| Naphtha (petroleum), light alkylate | None | None | None | |
| Octane | 300 ppm TWA | 500 ppm (2,350mg/m ³) | None | None |
| Proprietary Resin | None | None | None | None |

Engineering controls: Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact..

9. Physical and Chemical Properties

| | |
|---|--|
| Physical state: | Liquid |
| Color: | Colorless |
| Odor: | Mild, Solvent |
| Odor threshold: | Not available |
| pH: | Not available |
| Vapor pressure: | Not available |
| Boiling point/range: | > 112 °C (> 233.6 °F) (1,013 hPa) |
| Melting point/ range: | Not determined |
| Specific gravity: | 0.754 |
| Vapor density: | Heavier than air. |
| Flash point: | 31 °C (87.8 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| Autoignition temperature: | > 200 °C (> 392°F) (value for solvent) |
| Evaporation rate: | Slower than ether. |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 754 g/l of coating |

10. Stability and Reactivity

Stability: Risk of ignition. Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Traces of Ammonia. Hydrocarbons.

Incompatible materials: Strong oxidizing agents. Humid air. Water.

Conditions to avoid: Avoid static discharge. Vapors may form explosive mixtures with air. Spray mist may be flammable at temperatures below the flash point. Keep away from open flames, hot surfaces and sources of ignition. Fire or intense heat may cause violent rupture of packages. Exposure to air or moisture over prolonged periods.

11. Toxicological Information

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-------------------------------------|----------------|-----------------|---|
| Hydrotreated heavy naphtha | No | No | No |
| Dibutyl ether | No | No | No |
| Naphtha (petroleum), light alkylate | No | No | No |
| Octane | No | No | No |
| Proprietary Resin | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|-------------------------------------|--|
| Hydrotreated heavy naphtha | Irritant |
| Dibutyl ether | Irritant, Central nervous system, Cardiac, Kidney, Gastrointestinal, Mutagen |
| Naphtha (petroleum), light alkylate | Irritant |
| Octane | Central nervous system, Irritant, Lung |
| Proprietary Resin | No Data |

12. Ecological Information

N/A

13. Disposal Considerations

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: D001: Ignitable.

14. Transport Information

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Resin solution

Hazard class or division: 3

Identification number: UN 1866

Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Resin solution

Hazard class or division: 3

Identification number: UN 1866

Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RESIN SOLUTION (Octane)

Hazard class or division: 3

Identification number: UN 1866

Packing group: III

Marine pollutant: Octane

15. Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA) inventory or are exempt from listing because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Fire, Immediate Health, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

WHMIS hazard class: B.2, D.2.B

16. Other Information

Preparation Date: January 27, 2011

Prepared by: Orca Composites

Comments: This Material Safety Data Sheet was prepared using information provided by Orca Composites and Fiberlay Inc.

Revisions: None

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