



MATERIAL SAFETY DATA SHEET

Chemtrec 24-Hour Emergency Telephone
 Domestic North America (800)424-9300
 International (703)527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communication)

1. Product and Supplier Identification

Product: Orca F50 Urethane – 2702005101 – Part A

Product Use: Polyurethane resin

Chemical Family: Aromatic diisocyanate, urethane polymer ester mixture

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

2. Composition

Name	CAS #	% by weight
Modified MDI	Proprietary	30 - 50
Butyl benzyl phthalate	85-68-7	50
4,4'-Diphenylmethane diisocyanate	101-68-8	20 - 25

3. Hazards Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOR: Translucent pale yellow liquid with a slight odor.

IMMEDIATE CONCERNS: May cause eye and skin irritation. Use in well ventilated areas. Avoid breathing vapors. Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes. Reacts slowly with water to produce carbon dioxide which may rupture containers. This reaction accelerates at higher temperatures.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation, tearing, reddening, and swelling.

SKIN: May cause irritation and possible allergic sensitivity. Skin inflammation is characterized by itching, scaling, or reddening.

INGESTION: Slightly hazardous in case of ingestion.

INHALATION: May be harmful if inhaled. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to the respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons.

2702005101 - Orca F50 Urethane – Part A

MEDICAL CONDITIONS AGGRAVATED: May cause or aggravate dermatitis and asthma.

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

4. First Aid Measures

EYES: Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

INHALATION: Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention. Treatment is symptomatic for primary irritation or bronchospasm. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. Fire Fighting Measures

FLASHPOINT AND METHOD: 118°C (245°F) Pinsky-Martens CC

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or alcohol foam.

EXPLOSION HAZARDS: Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes. Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrous oxide, and HCN.

6. Accidental Release Measures

SMALL SPILL: Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

LARGE SPILL: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

RELEASE NOTES: US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

GENERAL PROCEDURES: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

2702005101 - Orca F50 Urethane – Part A

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a cool, dry place, away from excessive heat, in original or similar container. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

SHELF LIFE: 6 months from date of shipment under manufacturers recommended storage conditions.

8. Exposure Controls, Personal Protection

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

Chemical Name	EXPOSURE LIMITS						
	OSHA PEL		ACGIH TLV		SupplierOEL		
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3	
Modified MDI	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Butyl benzyl phthalate	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
4,4'-Diphenylmethane diisocyanate	TWA	0.02	0.2	0.005	0.051	0.005 [1]	0.05 [1]
	STEL	NE	NE	NE	NE	NE	NE

OSHA TABLE COMMENTS:

1. NIOSH REL

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. Physical and Chemical Properties

PHYSICAL STATE: Liquid

ODOR: Slight

COLOR: Pale yellow

pH: Not Applicable

PERCENT VOLATILE: 0.7

2702005101 - Orca F50 Urethane – Part A

VAPOR PRESSURE: < 1 mmHg at 25°C (77°F)

VAPOR DENSITY: Heavier than air

BOILING POINT: > 240°C (464°F)

FLASHPOINT AND METHOD: 118°C (245°F) Pensky-Martens CC

SOLUBILITY IN WATER: Reacts slowly with water

SPECIFIC GRAVITY: 1.130 (water=1) at 25°C (77°F)

VISCOSITY: 550 Centipoise at 25°C (77°F)

VOC (Volatile Organic Compound): 7.900 g/l Calculated. Theoretical VOC minus water and exempt solvents.

10. Stability and Reactivity

STABILITY: This product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Product may foam when exposed to heat and moisture.

CONDITIONS TO AVOID: High temperatures, moisture, and freezing conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrous oxide, and HCN.

INCOMPATIBLE MATERIALS: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids. This reaction with water is accelerated at higher temperatures. Some reactions may be violent.

11. Toxicological Information

TOXICITY TO ANIMALS

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Modified MDI	Not Established	Not Established	Not Established
Butyl benzyl phthalate	20400 mg/kg	> 10000 mg/kg	> 6.7 mg/l
4,4'-Diphenylmethane diisocyanate	> 5000 mg/kg	> 5000 mg/kg	2240 mg/m ³ (1 h of respirable aerosol)

CARCINOGENICITY

Chemical Name	IARC Status
Butyl benzyl phthalate	3
4,4'-Diphenylmethane diisocyanate	3

IARC: This product contains substances that are not classifiable as carcinogens to humans.

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: Butyl benzyl phthalate meets the definition of a marine pollutant.

AQUATIC TOXICITY

96-HOUR LC₅₀: > 1000 mg/l Zebra Fish

48-HOUR EC₅₀: > 1000 mg/l Daphnia magna (24 hour)

96-HOUR EC₅₀: > 100 mg/l E.Coli

Notes: This information is based only on MDI and its derivatives.

13. Disposal Considerations

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Containers must be emptied (as defined by RCRA, 40 CFR Section 261.7 or state regulations that may be more stringent) and either passed to an approved recycler or destroyed.

14. Transport Information

DOT (DEPARTMENT OF TRANSPORTATION) LAND**PROPER SHIPPING NAME:** Environmentally hazardous substances, liquid, n.o.s. (**See Note**)**TECHNICAL NAME:** (butyl benzyl phthalate)**PRIMARY HAZARD CLASS/DIVISION:** 9**UN/NA NUMBER:** UN 3082

F-50 PART A Page 4 of 6

PACKING GROUP: III**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 100 lb of butyl benzyl phthalate**LABEL:** Class 9 (miscellaneous hazardous materials)**NOTE:** Applies ONLY to containers with a RQ of butyl benzyl phthalate (100 lb).**AIR (ICAO/IATA)****SHIPPING NAME:** Environmentally hazardous substances, liquid, n.o.s. (**See Note**)**TECHNICAL NAME:** (butyl benzyl phthalate)**UN/NA NUMBER:** UN 3082**PRIMARY HAZARD CLASS/DIVISION:** 9**PACKING GROUP:** III**LABEL:** Class 9 (miscellaneous hazardous materials)**NOTE:** Applies ONLY to containers with a RQ of butyl benzyl phthalate (100 lb).**VESSEL (IMO/IMDG)****SHIPPING NAME:** Environmentally hazardous substance, liquid, n.o.s.**TECHNICAL NAME:** (butyl benzyl phthalate)**UN/NA NUMBER:** UN 3082**PRIMARY HAZARD CLASS/DIVISION:** 9**PACKING GROUP:** III**LIMITED QUANTITY:** 5 liters**MARINE POLLUTANT #1:** Yes (butyl benzyl phthalate)**LABEL:** Class 9 (miscellaneous hazardous materials)

15. Regulatory Information

UNITED STATES**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Acute health hazard. Chronic health hazard**313 REPORTABLE INGREDIENTS:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS	Comments
4,4'-Diphenylmethane diisocyanate	20 - 25	101-68-8	Diisocyanate Compounds (Category Code N120)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**CERCLA REGULATORY:** For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):

Chemical Name	Wt.%	CERCLA RQ
Butyl benzyl phthalate	30	100 lbs.
4,4'-Diphenylmethane diisocyanate	20 - 25	5,000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)**TSCA STATUS:** This product or its components are listed in or exempt from the TSCA inventory requirements.**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS****CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.**REGULATIONS****STATE REGULATIONS:** California Proposition 65: This product contains chemical(s) which are known to the State of

2702005101 - Orca F50 Urethane – Part A

California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

CALIFORNIA PROPOSITION 65

Chemical Name	Wt. %	Listed
Butyl benzyl phthalate	30	Cancer Developmental Toxicity

OSHA HAZARD COMM. RULE: The contents of the MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS CLASS: D1A, D2A, D2B

DOMESTIC SUBSTANCE LIST (INVENTORY): All components in this product are included on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

16. Other Information

HMIS RATING: Health – 2 / Flammability – 1 / Physical Hazard – 1 / Personal Protection – X

- Transportation of Dangerous Goods Act - "Regulations respecting the handling, offering for transport and transporting of dangerous goods." Extract from the Canada Gazette Part II
- Canada Gazette Part II, Hazardous Products Act "Ingredient Disclosure List".
- Manufacturer's Material Safety Data Sheet.
- 29 CFR 1910.1000, Z – Tables
- ACGIH 2000 TLVs for Chemical Substances and Physical Agents
- Registry of Toxic Effects of Chemical Substances (RTECS)
- California Code of Regulation Proposition 65

Preparation Date: 2/09/11

Prepared by: Orca Composites

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

Revisions: None

ORCA COMPOSITES/FIBERLAY INC. believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in ORCA COMPOSITES products. Based on a review of the list, ORCA COMPOSITES products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.



MATERIAL SAFETY DATA SHEET

Chemtrec 24-Hour Emergency Telephone
 Domestic North America (800)424-9300
 International (703)527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communication)

1. Product and Supplier Identification

Product: Orca F50 Urethane – 2702005101 – Part B
Product Use: Polyurethane Curing Agent
Chemical Family: Aromatic diamine polyether polyol mixture
Supplier: Fiberlay Inc.
 24 S. Idaho St
 Seattle, Wa 98134
 (206)782-0660

2. Composition

Name	CAS #	% by weight
Polyether polyol	Proprietary	80 - 100
Di-(methylthio)toluenediamine	106264-79-3	5 - 10

3. Hazards Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOR: Clear pale yellow liquid with a slight amine odor.

IMMEDIATE CONCERNS: Avoid eye and skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well ventilated areas.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation.

SKIN: May cause irritation and possible allergic sensitivity with repeated contact.

INGESTION: Slightly hazardous in case of ingestion.

INHALATION: May result in respiratory irritation.

MEDICAL CONDITIONS AGGRAVATED: No data is available.

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

4. First Aid Measures

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

2702005101 - Orca F50 Polyurethane Curing Agent – Part B

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

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

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. Fire Fighting Measures

FLASHPOINT AND METHOD: 191°C (375°F) Pinsky-Martens CC

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides and sulfur.

6. Accidental Release Measures

SMALL SPILL: Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

LARGE SPILL: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant.

Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

RELEASE NOTES: US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

GENERAL PROCEDURES: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a cool, dry place, away from excessive heat, in original or similar container. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

SHELF LIFE: 6 months from date of shipment under manufacturers recommended storage conditions.

8. Exposure Controls, Personal Protection

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

EXPOSURE LIMITS

Chemical Name	OSHA PEL		ACGIH TLV		Supplier OEL	
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Polyether polyol	TWA	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE
Di-(methylthio)toluenediamine	TWA	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. Physical and Chemical Properties

PHYSICAL STATE: Liquid

ODOR: Slight amine

COLOR: Pale yellow

pH: Not Established

PERCENT VOLATILE: 0.02

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

FLASHPOINT AND METHOD: 191°C (375°F) Pensky-Martens CC

SOLUBILITY IN WATER: Slight

SPECIFIC GRAVITY: 1.030 (water=1) at 25°C (77°F)

VISCOSITY: 850 Centipoise at 25°C (77°F)

VOC (Volatile Organic Compound): < 0.210 g/l Calculated. Theoretical VOC minus water and exempt solvents.

10. Stability and Reactivity

STABILITY: This product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: High temperatures, moisture, and freezing conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, nitrogen oxides and sulfur.

INCOMPATIBLE MATERIALS: Isocyanates, oxidizing agents, and strong mineral acids.

11. Toxicological Information

TOXICITY TO ANIMALS

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Polyether polyol	Not Established	Not Established	Not Established
Di-(methylthio)toluenediamine	1515 mg/kg	> 2000 mg/kg	Not Established

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.

13. Disposal Considerations

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Containers must be emptied (as defined by RCRA, 40 CFR Section 261.7 or state regulations that may be more stringent) and either passed to an approved recycler or destroyed.

14. Transport Information

DOT (DEPARTMENT OF TRANSPORTATION) LAND

NOTE: Not Regulated

AIR (ICAO/IATA): Not Regulated

VESSEL (IMO/IMDG): Not Regulated

15. Regulatory Information

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health hazard. Chronic health hazard

313 REPORTABLE INGREDIENTS: This product contains the following

substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):

None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

2702005101 - Orca F50 Polyurethane Curing Agent – Part B

TSCA STATUS: This product or its components are listed in or exempt from the TSCA inventory requirements.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA

Health & Safety Code Section 25249.5):

None

OSHA HAZARD COMM. RULE: The contents of the MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS CLASS: Does not meet criteria.

DOMESTIC SUBSTANCE LIST (INVENTORY): All

16. Other Information

HMIS RATING: Health – 2 / Flammability – 0 / Physical Hazard – 0 / Personal Protection – X

-Transportation of Dangerous Goods Act - "Regulations respecting the handling, offering for transport and transporting of dangerous goods." Extract from the Canada Gazette Part II

-Canada Gazette Part II, Hazardous Products Act "Ingredient Disclosure List".

-Manufacturer's Material Safety Data Sheet.

-29 CFR 1910.1000, Z – Tables

-ACGIH 2000 TLVs for Chemical Substances and Physical Agents

-Registry of Toxic Effects of Chemical Substances (RTECS)

-California Code of Regulation Proposition 65

Preparation Date: 2/09/11

Prepared by: Orca Composites

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

Revisions: None

ORCA COMPOSITES/FIBERLAY INC. believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in ORCA COMPOSITES products. Based on a review of the list, ORCA COMPOSITES products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.