

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Form: Vinyl Ester

Substance Name: ORCA AIR DRY VINYL ESTER WHITE SURFACE PRIMER

Product Code(s): 074608108, 074608110, 074608113

1.3 Details of the Supplier of the Safety Data Sheet

Distributor:

Fiberlay Inc.

1468 Northgate Blvd

Sarasota, FL 34234

T 206-782-0660

F 888-782-0662

www.Fiberlay.com

www.OrcaComposites.com

1.4 Emergency Telephone Number

Emergency Number: CHEMTREC: Domestic - 800-424-9300

International- 703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Flammable Liquids, Category 3

Skin Irritation, Category 2

Eye Irritation, Category 2A

Health:

Carcinogenicity, not classified

GHS LABEL

Flammable liquid & vapors



SIGNAL WORD: WARNING

HAZARD STATEMENTS

H226: Flammable liquid and vapor.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

General:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

Prevention:

- P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment. P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P264: Wash exposed areas thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321: Specific treatment (see ... on this label).
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P370: In case of fire:
 P378: Use carbon dioxide (co2), dry chemical powder, foam to extinguish.

Storage:

- P403: Store in a well-ventilated place.
 P235: Keep cool.

Disposal:

- P501: Dispose of contents/container to in accordance with local, state and federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS NO.	Wt. %
Resin (proprietary)		≤ 50
Styrene	100-42-5	1 - 15
Talc	14807-96-6	15 - 40
2-propanol	67-63-0	5 - 15
Silica, Amorphous	112926-00-8	0 - 1
Cobalt Compound	none	0 - 2
2-butanone	78-93-3	5 - 15
Acetone	67-64-1	1 - 10

4. FIRST AID MEASURES

- EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION: Rinse Mouth Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

- EYES:** Serious eye irritation.
SKIN: Contact causes skin irritation.
SKIN ABSORPTION: NA = Not Applicable
INHALATION: May cause headaches and dizziness.

5. FIRE FIGHTING MEASURES

- FLAMMABLE CLASS:** 3
EXPLOSION HAZARDS: May form flammable/explosive vapor-air mixture.
FIRE FIGHTING PROCEDURES: Use foam. Dry powder. Carbon Dioxide (co2). Water spray. Sand

FIRE FIGHTING EQUIPMENT: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire exposed containers to minimize risk of rupture,

FIRE EXPLOSION: Flammable liquid. Vapors may spread long distances and ignite. Vapors and fumes may form explosive mixture with air.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

GENERAL PROCEDURES: Clean up spills immediately, observing precautions in Protective Equipment section.

SPECIAL PROTECTIVE EQUIPMENT: Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section).

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a tightly closed container. Use spark proof tools and explosion proof equipment.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in a cool dry place.

STORAGE TEMPERATURE: Store in a cool place below (68) F (20) C

SHELF LIFE: 6 months at (65) F

COMMENTS: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical		ppm	mg/m ³	ppm	mg/m ³	ppm	Mg/m ³
Styrene	TWA	100	420	20	85		
	STEL	200		40	170		
Talc	TWA	20 mpp			(2E,		
2-propanol	TWA	400	980	200	490	NL	NL
	STEL			400	960	NL	NL
Silica, Amorphous	TWA	20 mpp	80				
Cobalt Compound	TWA	500 Ppm		100 Ppm			
	STEL	N/E Ppm		N/E Ppm			
2-butanone	TWA	200	590	200	590		
	STEL			300	885		
Acetone	TWA	1000	2400	500		NL	NL
	STEL					NL	NL

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: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

SKIN: Wear protective gloves

RESPIRATORY: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances

where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING: Wear suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Melting Point (°C)	Boiling Point (°C)	Solubility in Water	Specific Gravity
Styrene	30 Closed cup	-31	145	Slight	0,91
2-propanol	13 Closed cup				

PHYSICAL STATE: Liquid

ODOR: Of Solvent

ODOR THRESHOLD: No data available.

COLOR: Neutral, white, grey, or black

pH: No Data available

PERCENT VOLATILE: 10-25%

FLASH POINT AND METHOD: $\geq 36^{\circ}\text{C}$ (98°F) Pensky-Martens closed cup (ASTM D-93)

FLAMMABLE LIMITS: 1.1 Styrene to 6.1 Styrene

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: Less than 7.5 mm Hg @ 68 F (20 C)

VAPOR DENSITY: 3.59 Styrene

Notes: Air = 1

BOILING POINT: Styrene: 293 F (145 C)

FREEZING POINT: Styrene: -23 F (-30.5 C)

MELTING POINT: No data available.

THERMAL DECOMPOSITION: No data available.

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: No data available.

DENSITY: ≥ 11.3 at 25°C (77°F)

SPECIFIC GRAVITY: 1.12 at 20°C (68°F)

VISCOSITY #1: 69 Kreb units at 25°C (77°F) Stormer

MOLECULAR WEIGHT: No data available.

(VOC): 240.000 grams per Liter

10. STABILITY AND REACTIVITY

REACTIVITY: No reactivity hazard other than the effects described in sub-sections below.

HAZARDOUS POLYMERIZATION: May occur. If product is not stored in dark at temperatures below 68 F (20 C), polymerization may occur.

STABILITY: Stable. However, may decompose if heated.

CONDITIONS TO AVOID: Direct sunlight. Extremely high or low temperatures. Open Flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes. Carbon monoxide. Carbon Dioxide. May release flammable gases.

INCOMPATIBLE MATERIALS: Strong Bases. Strong Acids.

11. TOXICOLOGICAL INFORMATION**ACUTE:**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC50
Styrene	1600 to 1300 mg/kg	> 91000 mg/kg	2232 PPM
Cobalt Compound	> 5000 mg/kg	> 3000 mg/kg	> 5500 Mg/Kg

EYES: Non-irritant (rabbit)

DERMAL LD₅₀: Slightly irritating, 24h (rabbit)

ORAL LD₅₀: Greater than 5,000 mg/kg (rat)

EYE EFFECTS: Causes serious eye irritation.

SKIN EFFECTS: Causes skin irritation.

CARCINOGENICITY

Chemical Name	NTP	IARC Status	OSHA Status
Cobalt Compound	None of the ingredients are listed.	Possible human carcinogen (group 2B) However, there is inadequate evidence of the carcinogenicity of cobalt in humans.	None of the ingredients are listed.

IARC: Styrene 100-42-5 2B Possibly carcinogenic to Humans.

OSHA: Not Established

IRRITATION: Causes skin irritation.

CORROSIVITY: NA = Not Applicable

NEUROTOXICITY: No data available.

REPRODUCTIVE EFFECTS: Not classified

TARGET ORGANS: No data available.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE): No further relevant information available.

GENERAL COMMENTS: Water hazard class 2 (self-assessment): Hazardous for water. Do not allow to reach ground water, water course or sewage system.

Danger to drinking water.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with FEDERAL, STATE and local regulations. incineration is the preferred method of disposal.

EMPTY CONTAINER: Handle empty containers with care because residual vapors are Flammable. Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents and containers to an approved site.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Resin Solution

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1866

PACKING GROUP: III
 U.S. SURFACE FREIGHT CLASS: 55
 MARINE POLLUTANT #1: No data available.
 OTHER SHIPPING INFORMATION: None known.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Resin Solution
 UN NUMBER: 1866
 HAZARD CLASS: 3
 CLASSIFICATION CODE: 3- Flammable Liquid
 PACKING GROUP: III
 LABEL: 3 - Flammable Liquid

AIR (ICAO/IATA)

SHIPPING NAME: Resin Solution
 UN/NA NUMBER: 1866
 PRIMARY HAZARD CLASS/DIVISION: 3
 PACKING GROUP: III
 LABEL: 3 - Flammable Liquid

VESSEL (IMO/IMDG)

SHIPPING NAME: Resin Solution
 UN/NA NUMBER: 1866
 PRIMARY HAZARD CLASS/DIVISION: 3
 PACKING GROUP: III
 MARINE POLLUTANT #1: No data available.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable
Liquid

R10: Flammable.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	CAS NO	Wt. %
Styrene	100 - 45 - 5	1 - 15
2-propanol	67 - 63 - 0	5 - 15
Cobalt Compound	None	0 - 2

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	CERCLA RQ	Wt. %
Styrene	1,000	1 - 15
2-butanone	5,000	5-15
Acetone	5,000	1-10

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS NO
Styrene	100 - 45 - 5

Talc	14807-96-6
2-propanol	67 - 63 - 0
Cobalt Compound	None
2-butanone	78-93-3
Acetone	67-64-1

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



**Flammable
Liquid**

16. OTHER INFORMATION

HMIS RATING

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	H

NFPA CODES



ORCA Composites believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in ORCA products. Based on a review of the list, ORCA 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.

“Warning: This product may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive Toxicants.”

Preparation Date: 05-06-2016

Prepared by: Kevin Aber

Comments: This Safety Data Sheet was prepared using information provided by Orca Composites

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