



MATERIAL SAFETY DATA

Chemtrec 24-Hour Emergency Telephone

Domestic North America (800) 424-9300

International (800) 527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communications)

1. PRODUCT AND SUPPLIER IDENTIFICATION:

Product: ORCA Air Dry Sanding/Surface/VE Primer

Product Number: 074200110, 074209008, 074209010
074209208, 074209210, 074209215
07608108, 074608110

Chemical Family: Polyester Resin

Chemical Name: Unsaturated Polyester

2. HAZARDOUS INGREDIENTS:

<u>Name/CAS#</u>	<u>Exposure limits</u>	<u>Concentration</u>
Styrene/ 100-42-5	osha: 50.00 PPM Twa 100.00 PPM Stel acgih: 50.00 PPM Twa 100.00 PPM Stel	24 -30%
Unsaturated Polyester Resin		Mixture
Dioxide	(Amorphous)	
Alpha-Methylstyrene 98-83-9	50.00 PPM Tlv PEL None	0-1.2 %

3. HAZARDOUS IDENTIFICATION:

Hazardous Overview:

Color: Neutral, White & Grey tint

Form: Viscous Liquid;

Odor: Negligible

Inhalation: May cause respirator tract irritation; Inhalation may cause nausea or dizziness

Eyes: May cause eye irritation

Ingestion: May be harmful if swallowed

Irritating gases/fumes may be given off during burning or thermal decomposition.

Potential Health Effects:

Route of entry:

Inhalation; skin contact; skin absorption; eye contact

Human Effects and Symptoms of Overexposure:

Air monitoring conducted during the curing of this product has shown that acrolein and acetaldehyde vapors can be generated; if curing occurs in an unventilated area exposure limit for acrolein could be exceeded. The following health effects include signs and symptoms associated with overexposure to acrolein and acetaldehyde.

Acute Inhalation:

Acrolein vapors cause severe respiratory and eye irritation. Symptoms of overexposure include lacrimation, a burning sensation in the throat, cough, chest discomfort and cyanosis (bluish discoloration of earlobes, lips and fingernails due to lack of oxygen in the blood). The tl_v is designed to minimize irritation. Acetaldehyde vapors cause respiratory and eye irritation. The irritant effects include cough and burning sensation in the nose, throat and eyes. High concentrations can cause central system depression.

Chronic Inhalation: None known

Acute Skin Contact:

Based on animal testing (see animal toxicity section), this product is not expected to be a skin irritant.

Chronic Skin Contact: None known

Acute Eye Contact:

Based on animal testing, eye contact with liquid, aerosols and vapors of this product are not expected to cause eye irritation. However, eye contact with acrolein and acetaldehyde vapors (which can be generated during curing) at concentrations above their respective tl_v's can cause redness, tearing and swelling of the eyes.

Chronic Eye Contact: None known

Acute Ingestion:

Can cause irritation in the mouth, stomach tissue and digestive tract

Chronic Ingestion: None known

Carcinogenicity NT: Not listed

IRAC : Not listed

OSHA : Not regulated

MEDICAL CONDITIONS:**Aggravated by Exposure:**

Respiratory disorders may be aggravated by exposure to acrolein and acetaldehyde vapors

Exposure Limits:

Not established for product as a whole, refer to section 2 for exposure limits of hazardous constituents

4. FIRST AID MEASURES:

First Aid For Eyes:

Flush with clean, lukewarm water (low pressure) for at least 15 minutes occasionally lifting eyelids. Obtain medical attention.

First Aid For Skin:

Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.

First Aid For Inhalation:

Move to an area free from risk of further exposure. Administer artificial respiration or oxygen if needed. Obtain medical attention immediately.

First Aid For Ingestion:

DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON.

Consult physician.

5. FIRE FIGHTING MEASURES:

Flash Point: Degrees 87-95 F (30-35 C) Closed cup (astm D-93)
Flammable Limits: (UEL)(%): 6.1 Styrene
(LEL) (%): 1.1 Styrene
Extinguishing Media: Dry chemical; Carbon dioxide; Foam; Water

Special Fire Fighting Procedures:

Full emergency equipment with self-contained breathing apparatus should be worn by firefighters. During a fire thermal decomposition and combustion may generate irritating and toxic gases and aerosols.

Unusual Fire/Explosion Hazards:

Closed container may explode when exposed to extreme heat. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

6. ACCIDENTAL RELEASE MEASURES:**Spill or Leak Procedures:**

- Evacuate non-essential personnel
- Remove all sources of ignition and ventilate the area
- Dike or impound spilled material and control further spillage if feasible
- Notify appropriate authorities if necessary
- Cover spill with sawdust, vermiculite, Fuller's earth or other absorbent material
- Collect material and place in a clean empty drum for disposal
- Utilize recommended protective equipment.

7. HANDING & STORAGE:

Storage Temperature (min/max.): 41 F (5 C) / 68 F (20 C)

Shelf Life: 6 Months

Special Sensitivity: Heat, light, moisture

Handling/Storage Precautions:

- Stored in closed containers and in the dark at temperatures less than 68 F (20 C)
- If organic peroxide curing agents are used, mixing with pure accelerators can cause decomposition with explosive force
- One material must be thoroughly dispersed in the resin before the second is added.

8. PERSONAL PROTECTION:**Eye-protection Requirements:**

Splash goggles, safety glasses or face shield. Contact lenses should not be worn

Skin Protection Requirement:

Permeation resistant gloves

Ventilation/Respiratory Requirement:

- Exhaust ventilation sufficient to keep the airborne concentrations of acrolein and acetaldehyde below the appropriate TLV's during curing of coating system must be utilized
- Exhaust air may need to be cleaned by scrubbers & filters to reduce environmental contamination. Curing ovens must be ventilated to prevent off-gases from entering the workplace

PHYSICAL AND CHEMICAL PROPERTIES:

Physical Form	Liquid
Color	Neutral, White, Grey & Black
Odor	Of Solvent
Boiling Point	Styrene: 293 F (145 C)
Heat Distortion Temp	280F
Melting/Freezing Point	Styrene: -23 F (-30.5C)
Solubility in Water	Insoluble

Specific Gravity	1.12 at 68 F (20 C)
Bulk Density	Approx. 11 LBS/Gal
% Volatile By Weight	25 %
Vapor Pressure	Less than 7.5 mm Hg @ 68 F (20 C)
Vapor Density	3.59 (Styrene) (Air = 1)
VOC	See chart

10. STABILITY AND REACTIVITY:**Stability:**

Stable when stored in dark at temperatures below 68 F (20 C)

Hazardous Polymerization:

May occur if product is not stored in dark at temperatures below 68 F (20 C)

Incompatibilities:

Aliphatic hydrocarbons

Instability Conditions:

None known

Decomposition Products:

By fire: CO₂, CO

During curing process: Acrolein, Acetaldehyde

11. TOXICOLOGICAL INFORMATION:**Acute Toxicity**

Oral LD50: Greater than 5000 mg/kg (rat)

Eye Effects: Non-irritant (rabbit)

Skin Effects: Slightly Irritating, 24h (rabbit)

12. ECOLOGICAL INFORMATION:

No Ecological Information Available

13. DISPOSAL CONSIDERATIONS:**Waste Disposal Method:**

- Waste must be disposed of in accordance with Federal, State and local environmental control regulations
- Incineration is the preferred method
- Empty containers must be handled with care due to product residue
- Decontaminate containers prior to disposal.

14. TRANSPORTATION INFORMATION:

Technical Shipping Name:	Resin Solution
Freight Class:	55
Hazard Class Division:	3
UN # :	UN1866
Subsidiary Risk:	None

Packing Group: III
Hazard Label: Flammable Liquid
Radioactive: Non-radioactive

15. REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Name/cas #</u>	<u>Concentration</u>	<u>State Code</u>
Styrene / 100-42-5	25-30%	PA1,MA,NJ1
Unsaturated Polyester Resin	65-75%	PA3
Ester	1- 10 %	PA3

CA = California proposition 65
MA = Massachusetts Hazardous substance lists.
NJ1 = New Jersey Hazardous substance list.
PA1 = Pennsylvania Hazardous substance list.
PA3 = Pennsylvania Non-hazardous present at 3% or greater.

16. OTHER INFORMATION:

None.

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