

MATERIAL SAFETY DATA SHEET

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4100 2.1 VOC Clearcoat (Rule 1151)
4102 2.1 VOC Clearcoat Activator - Normal (Rule 1151)
4103 2.1 VOC Clearcoat Activator – Slow (Rule 1151)

Section 1: Product Identification

Product Identification: Clearcoat and Activator
OSHA Hazard Class: Flammable Liquid
DOT Shipping Class: Paint Related Material UN1263
Hazardous Material Information: See Section 10

Section 2: Hazardous Ingredients

* Denotes 15-minutes / ** Denotes 10-minutes / (S) = Supplier / NE = Not Established

CAS #	INGREDIENT	VAPOR PRESSURE 20°C (MMHg)	SARA 313 REPORT	OSHA	ACGIH	STEL	CEILING
N/E	Acrylic Resin	N/E	No	N/A	N/A	N/A	N/A
1330-20-7	Xylene (Note A)	25.00	Yes	100 ppm	100 ppm	150 ppm	200 ppm**
123-86-4	n Butyl Acetate	8.40	No	150 ppm	150 ppm	200 ppm*	----
64742-94-5	Aromatic Hydrocarbon Mixture	0.20	No	10 ppm	10 ppm	15 ppm	----
108-65-6	Methoxy Propyl Acetate	3.80	No	N/E	N/E	N/E	----
628-63-7	Amyl Acetate	4.00	No	10 ppm	10 ppm	15 ppm	----
28182-81-2	Aliphatic Polyisocyanate Resin	Unknown	No	.5 mg/m ³ (s)	N/E	1.0 mg/m ^{3*}	----
67-64-1	Acetone	181.00	No	750 ppm	750 ppm	1000 ppm*	----
540-88-5	t Butyl Acetate	34	No	200 ppm	200 ppm	200 ppm	----
110-43-0	Methyl Amyl Ketone	2.10	No	100ppm	100 ppm	50 ppm	----
108-88-3	Toluene	36.00	Yes	100 ppm	50 ppm	150 ppm	200 ppm**
108-10-1	Methyl Isobutyl Ketone	15	Yes	100 ppm	50 ppm	75 ppm	----
78-93-3	Methyl Ethyl Ketone	70	Yes	200 ppm	200 ppm	300 ppm	----

Note A: Technical grade Xylene contains 18-20% Ethylbenzene (100-41-4), which has 100 ppm PEL, 100 ppm TLV, 125 ppm STEL, and is subject to the reporting requirements of Section 313 of Sara Title III.
See Section 10 for specific ingredients and SARA 313 reportable wt. % data.

Section 3: Physical Data

Boiling Range: 174 °F – 344 °F
Solubility in H₂O: Slightly Miscible – Miscible
Volatile (%) by Volume: 38.3 – 69.1%
Weight Per Gallon: 8.6 – 9.83 lbs/gallon

Evaporation Rate: Slower than Ether
Vapor Density: Heavier than Air
Volatile % by Weight: 30.0 – 69.8%

Section 4: Fire and Explosion Hazard Data

Flash Point: See Section 10

Flammable Limits: 0.8% - 13.0%

Extinguishing Media:

Water Spray (for Containment), Foam, Carbon Dioxide, Dry Chemical.

Special Fire Fighting Procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fogging nozzles may be used to cool closed containers to prevent pressure build up preventing rupturing. Do not use direct water stream on combustible or flammable liquid fires.

Unusual Fire and Explosion Hazards: When heated above the defined flash points, these solvents emit flammable vapors, which when mixed with air, can burn or be explosive when exposed to any ignition source. Fine mists or spray may be flammable at temperatures below the flash point.

Section 5: Health Hazards Data

General Effects:

If Ingested:

Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of the ingredients available.

If Inhaled:

May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

If Skin or Eye Contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15-minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific Effects:

Ethyl Benzene: (Contributed from Xylene) Moderate toxicity by irritation to the skin, eyes, mucous membranes and by ingestion and inhalation routes. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

nButyl Alcohol: May cause chemical burns to eyes. May cause abnormal blood forming function with anemia. Reoccurring overexposure may result in liver and kidney injury.

Xylene: High concentrations have caused embryo toxic effects in laboratory animals. Reoccurring overexposure may cause liver or kidney damage. Can be absorbed through the skin in harmful amounts.

nButyl Acetate: May cause abnormal liver function.

Aromatic Hydrocarbons, Solvent 100, VMP Naphthas, Lt. Aliphatic Naphtha & Mineral Spirits: Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs or monkeys. Several studies evaluating petroleum workers have not shown a significant increase in kidney damage or an increase in liver tumors.

Methoxy Propyl Acetate: May cause moderate eye burning. Continuous re-over exposures may result in liver and kidney injury.

Amyl Acetate: May cause abnormal liver function.

Section 6: Reactivity Data

Stability: Stable

Incompatibility (Materials to Avoid): None reasonably foreseeable.

Hazardous Decomposition Products: CO, CO₂, Smoke

Hazardous Polymerization: Will not occur.

Section 7: Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear a properly fitted vapor/particulate respirator (NIOSH/MSHA TC-23C). Confine and remove with inert absorbent.

Waste Disposal Method:

Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state and local requirements. Do not incinerate in closed containers.

Section 8: Special Protection Information

Respiratory:

Do not breathe vapors or mists. Wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C) or equivalent while mixing activator with any paint or clear, during application and until all vapors and spray mists are exhausted. Individuals with a history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product. Do not permit anyone without protection in the painting area. Follow the respirator manufacturer's directions for respirator use.

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

Protective Clothing:

Neoprene gloves and coveralls are recommended.

Eye Protection:

Desirable in all industrial situations. Include splashguards or side shields.

Section 9: Special Precautions

Precautions to be taken in handling and storing:

Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash all exposed areas thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other Precautions:

Do not sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

Section 10: Other Information Product Specifications

For each product part number and chemical listed below, the chemicals that have weight percentages in parenthesis are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and 40 CFR 372.

4100 2.1 VOC Clearcoat, Rule 1151

Acrylic Resins, nButyl Acetate, , para-Chlorobenzotrifluoride, tButyl Acetate, Xylene (2.1%), Methoxy Propyl Acetate, Acetone, Aromatic Hydrocarbon Mixture and Methyl Ethyl Ketone.

Gallon Weight: 8.63 lbs

Wt % Solids: 62.1

Vol. % Solids: 55.9

OSHA Storage: 1B

Flash Point: 23°F

Material VOC: 2.22 lbs/gallon

Coating VOC: 2.57 lbs/gallon

Solvent Density: 7.51 lbs/gallon

4102 2.1 VOC Clearcoat Activator – Normal, Rule 1151

Aliphatic Polyisocyanate Resin, Hexamethylene Diisocyanate Monomer (0.4%), nButyl Acetate, tButyl Acetate, Methoxy Propyl Acetate, Aromatic Hydrocarbon Mixture, , para-Chlorobenzotrifluoride ,Methyl Ethyl Ketone and Xylene (4.4%).

Gallon Weight: 9.83 lbs

Flash Point: 23°F

Wt % Solids: 30.35

Vol. % Solids: 30.76

OSHA Storage: 1B

Material VOC: 1.96 lbs/gallon

Coating VOC: 3.48 lbs/gallon

Solvent Density: 9.89 lbs/gallon

4103 2.1 VOC Clearcoat Activator - Slow, Rule 1151

Aliphatic Polyisocyanate Resin, Hexamethylene Diisocyanate Monomer (0.4%), nButyl Acetate, tButyl Acetate, Methoxy Propyl Acetate, Aromatic Hydrocarbon Mixture, , para-Chlorobenzotrifluoride ,Methyl Ethyl Ketone and Xylene (4.4%).

Gallon Weight: 9.83 lbs

Flash Point: 23°F

Wt % Solids: 30.35
Vol. % Solids: 30.76
OSHA Storage: 1B

Material VOC: 1.96 lbs/gallon
Coating VOC: 3.48 lbs/gallon
Solvent Density: 9.89 lbs/gallon

Xylene: When present, it can be assumed 18-20% of the weight % reported is Ethylbenzene.

Flash Point: Determined by TCC, expressed in degrees Fahrenheit.

Coating VOC: $W_S - W_W - W_{ex} \div V_t - V_W - V_{ex}$ Represents VOC per EPA Method 24.

Material VOC: $W_S - W_W - W_{ex}$

Where: W_S = total solvent weight

W_W = weight of water

W_{ex} = weight of exempt solvent

V_{ex} = Volume of exempt solvent

V_W = volume of water

V_t = total volume

WARNING: KEEP THIS AND ALL PAINT RELATED PRODUCTS OUT OF THE REACH OF CHILDREN!

The information contained in this MSDS is based on data from sources considered to be reliable but Southern Polyurethanes, Inc. does not guarantee the accuracy or completeness thereof. Southern Polyurethanes, Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire prevention as necessary or appropriate to use and understand the data in this MSDS

Note: The data on this MSDS relates only to individual components and does not represent the end mixed product.

Read all other component Material Safety Data Sheets.

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END OF MSDS.