MATERIAL SAFETY DATA SHEET

Basecoat Toners

RCT-1677 Scarlet Red Toner
RCT-1682 Coarse Aluminum
RCT-1683 Basecoat Mixing Black
RCT-1684 Basecoat Mixing White
RCT-1686 Fine Satin Aluminum
RCT-1687 Medium Satin Aluminum
RCT-1690 Coarse Satin Aluminum

Section 1: Product Identification

Product Identification: Basecoat Binder
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	**----**
71-36-3	nButyl Alcohol	4.39	**No**	100 ppm	50 ppm	---	50 ppm skin*
67-64-1	Acetone	181.00	**No**	750 ppm	750 ppm	1000 ppm*	----
110-43-0	Methyl Amyl Ketone	2.10	**No**	100ppm	100 ppm	50 ppm	**----**
78-93-3	Methyl Ethyl Ketone	83.0	**Yes**	200 ppm	200 ppm	300 ppm	
141-78-96	Ethyl Acetate	76.0	**No**	400 ppm	400 ppm	----	----
108-10-1	Methyl Isobutyl Ketone	15	**Yes**	100 ppm	50 ppm	75 ppm	----
763-69-9	Ethyl 3-Ethoxy Propionate	1.1	**No**	N/E	----	50 ppm(s)	----
64742-95-6	Solvent 100	11.00	**No**	50 ppm	50 ppm	150 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: 133°F – 344°F
Solubility in H2O: Slightly Miscible – Miscible
Volatile (%) by Volume: 70.5. – 85.4%
Weight Per Gallon: 7.6 – 10.69 lbs/gallon

Evaporation Rate: Slower than Ether
Vapor Density: Heavier than Air
Volatile % by Weight: 48.6 – 81.0%

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 ant 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 Napthas, Lt. Aliphatic Naptha & 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 lf kidney damage or an increase in liver tumors.
Amyl Acetate: May cause abnormal liver function.
Acetone: can cause dermatitis.
Butyl Acetate: May cause abnormal liver function.
Methyl Amyl Ketone: Ingestion studies on laboratory animals showed that high oral doses caused increased liver and kidney weights.
Methyl Ethyl Ketone: High concentrations have caused embryo toxic effects in laboratory animals. Liquid splashed in the eyes may result in chemical burns.
Methoxy Propyl Acetate: May cause moderate eye burning. Continuous re-over exposure may result in liver and kidney injury.
Ethyl Acetate: Prolonged and repeated high exposure of laboratory animals resulted in secondary anemia with increase in white blood cells.

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. Don 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 bre3athing 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.

RCT-1677 Scarlet Red Toner
Acrylic Resins, nButyl Acetate, Xylene (12%), nButyl Alcohol, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 8.01 lbs
Wt % Solids: 27.9
Vol. % Solids: 21.0
OSHA Storage: 1B
Flash Point: 23°F
Material VOC: 5.6 lbs/gallon
Coating VOC: 5.6 lbs/gallon
Solvent Density: 7.2 lbs/gallon

RCT-1682 Coarse Aluminum
Acrylic Resins, nButyl Acetate, Xylene (8%), nButyl Alcohol, Solvent 100, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 7.9 lbs
Wt % Solids: 23.9
Vol. % Solids: 17.5
OSHA Storage: 1B
Flash Point: 23°F
Material VOC: 5.9 lbs/gallon
Coating VOC: 5.9 lbs/gallon
Solvent Density: 7.15 lbs/gallon

RCT-1683 Basecoat Mixing Black
Acrylic Resins, nButyl Acetate, Xylene (10%), nButyl Alcohol, Solvent 100, Acetone, and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 7.60 lbs
Wt % Solids: 19.0
Flash Point: -2°F
Material VOC: 3.4 lbs/gallon

Vol. % Solids: 14.6
OSHA Storage: 1B
Coating VOC: 4.7 lbs/gallon
Solvent Density: 6.78 lbs/gallon

RCT-1684 Bascoat Mixing White
Acrylic Resins, nButyl Acetate, Xylene (10%), nButyl Alcohol, Solvent 100, Acetone, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 10.69 lbs
Wt % Solids: 51.4
Vol. % Solids: 29.5
OSHA Storage: 1B
Flash Point: -2°F
Material VOC: 4.9 lbs/gallon
Coating VOC: 5.1 lbs/gallon
Solvent Density: 7.22 lbs/gallon

RCT-1686 Fine Satin Aluminum
Acrylic Resins, nButyl Acetate, Xylene (10%), nButyl Alcohol, Solvent 100, Acetone, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 7.89 lbs
Wt % Solids: 23.3
Vol. % Solids: 17.0
OSHA Storage: 1B
Flash Point: -2°F
Material VOC: 5.2 lbs/gallon
Coating VOC: 5.8 lbs/gallon
Solvent Density: 7.21 lbs/gallon

RCT-1687 Medium Satin Aluminum
Acrylic Resins, nButyl Acetate, Xylene (10%), nButyl Alcohol, Solvent 100, Acetone, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 7.86 lbs
Wt % Solids: 23.5
Vol. % Solids: 17.4
OSHA Storage: 1B
Flash Point: -2°F
Material VOC: 5.1 lbs/gallon
Coating VOC: 5.7 lbs/gallon
Solvent Density: 7.20 lbs/gallon

RCT-1690 Coarse Satin Aluminum
Acrylic Resins, nButyl Acetate, Xylene (10%), nButyl Alcohol, Solvent 100, Acetone, Methoxy Propyl Acetate and Ethyl 3-Ethoxy Propionate.

Gallon Weight: 7.86 lbs
Wt % Solids: 23.5
Vol. % Solids: 17.4
OSHA Storage: 1B
Flash Point: -2°F
Material VOC: 5.1 lbs/gallon
Coating VOC: 5.7 lbs/gallon
Solvent Density: 7.17 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!
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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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