

BIG SKY COMPLIANCE COATINGS

PRIMERS / CONVERTERS

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

SECTION I. MANUFACTURER

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Products on this MSDS:

EZ211, EZ213, EZ543, EZ545, EZ601A, EZ603A, PC3000M, PC3000S, PS3008, PS3042, PS3044, PS3045, PS3051, PS3053, PS3055, PS3121, PS3123, PS3125, PS3161, PS3163, PS3165, PS5008A, PS5009A, PS5012, PS5620.

OSHA Hazard Class: Flammable Liquid

DOT Shipping Class: Paint Related Materials UN1263

Hazardous Materials Information: See Section X.

SECTION II. HAZARDOUS INGREDIENTS

Also see Section X.

INGREDIENTS	CAS#	VAPOR PRESSURE 20°C (MMHg)	SARA 313 REPORT	EXPOSURE LIMITS			
				OSHA	ACGH	STEL	CEILING
1. Acetone	67-64-1	181.0	No	750 ppm	750 ppm	1000 ppm*	----
2. Acrylic Copolymer	N/E	----	----	----	----	----	----
3. Acrylic Polymer	Proprietary	----	----	----	----	----	----
4. Acrylic Modifier	Proprietary	N/A	No	N/E	N/E	N/E	----
5. Acrylic Resin	N/E	----	----	----	----	----	----
6. Aluminum Silicate	1318-59-8	None	No	2.0 mg/ m ³	2.0 mg/ m ³	----	----
7. Barium Sulfate	7727-43-7	None	No	15mg/m ³	10mg/m ³	----	----
8. N-Butanol	71-36-3	5.5	Yes	100 ppm	50 ppm	----	50 ppm skin*
9. Butyl Acetate	123-86-4	8.4	No	150 ppm	150 ppm	200 ppm*	----
10. 2-Butoxy Ethanol	111-76-2	0.6	Yes	50 ppm skin	25 ppm skin	----	----
11. Carbon Black	1333-86-4	None	No	3.5mg/m ³	3.5mg/m ³	N/A	N/A
12. Chlorobenzotriflouride	98-56-6	0.3	No	N/E	N/E	N/E	----
13. Epoxy Resin	Proprietary	N/A	No	N/E	N/E	N/E	----
14. Ethanol	64-17-5	Unknown	No	1000 ppm	1000 ppm	----	----
15. Ethyl Acetate	141-78-6	76.0	No	400 ppm	400 ppm	----	----
16. Ethyl 3-Ethoxy Propionate	763-69-9	1.11	No	N/E	----	50 ppm	----
17. Iron Oxide	1309-37-1	None	No	None	10 mg/ m ³	----	----
18. Isobutyl Acetate	110-19-0	12.50	No	150 ppm	150 ppm	----	----
19. LT Aliphatic Naptha	64742-89-8	20.00	No	----	----	----	----
20. Magnesium Silicate	14807-96-6	None	No	2.0 mg/m ³	2.0 mg/m ³	----	----
21. Methoxy Propyl Acetate	108-65-6	3.8	No	N/E	N/E	N/E	----
22. Methyl Amyl Ketone	110-43-0	2.1	No	100 ppm	100 ppm	50 ppm	----
23. Methyl Ethyl Ketone	78-93-3	70.0	Yes	200 ppm	200 ppm	300 ppm	----

24. Methyl Isobutyl Ketone	108-10-1	15.0	Yes	100 ppm	50 ppm	75 ppm	----
25. Methyl IsoAmyl Ketone	110-12-3	N/A	No	None	50 ppm	--	--
26. N-Pentyl Propionate	624-54-4	1.5	No	N/E	50 ppm	N/E	----
27. Phosphoric Acid	7664-38-2	N/A	No	----	1 mg/m ³	3mg/m ³	----
28. Polyester Resin	Proprietary	N/A	No	N/E	N/E	N/E	----
29. 2-Propanol	67-63-0	30.0	No	400 ppm	400 ppm	500 ppm	----
30. Solvent 90	64742-89-8	----	No	300 ppm	300ppm	400 ppm	15 Min.
31. Solvent 100	64742-95-6	11.0	No	50 ppm	50 ppm	150 ppm	----
32. Tert Butyl Acetate	540-88-5	----	No	NE	NE	NE	----
33. Titanium Dioxide	13463-67-7	None	No	10mg/m ³	10mg/m ³	----	----
34. Toluene	108-88-3	36.0	Yes	100 ppm	50 ppm	150 ppm	200 ppm**
35. Triethylamine	Proprietary	None	No	5mg/m ³	----	----	----
36. Water	7732-18-5	23.6	No	N/A	N/A	N/A	----
37. Xylene (Note A)	1330-20-7	25.0	Yes	100 ppm	100 ppm	150ppm	200 ppm**
38. Zinc Phosphate	7790-90-0	None	No	15mg/m ³	10mg/m ³	--	--

* Denotes 15 Minutes/** Denotes 10 Minutes/ (S) = Supplier/ N/E = Not Established

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

See Section X. for specific ingredients and SARA 313 reportable wt.% data.

SECTION III. PHYSICAL DATA

Also see Section X.

Boiling Range:	129°F - 374 °F	Evaporation Rate:	Slower than Ether
Solubility in H₂O:	Slight - Miscible	Vapor Density:	Heavier than Air
Volatile (%) by Volume:	51.50 - 98.83	Volatile (%) by Weight:	30.10 - 97.71
Weight per Gallon:	6.72 - 12.1 lbs./gal.		

SECTION IV. FIRE AND EXPLOSION

Flash Point: See Section X.

Flammable Limits: .8% - 13%

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 V. HEALTH HAZARD DATA

General Effects:

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

Inhalation: 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. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

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:

Acetone: Can cause dermatitis.

Aromatic Hydrocarbons, Solvent 90, Solvent 100, VM&P 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 of kidney damage or an increase in liver tumors.

2-Butoxy Ethanol: Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and or bone marrow. Repeated overexposure may result in blood damage. Eye contact may cause corneal injury. Has been toxic to fetus in laboratory animals at levels toxic to the mother.

Butyl Acetate: May cause abnormal liver function.

Ethanol: Over exposure may cause eye, throat, and nose irritation. May cause skin irritation and dermatitis. May cause abnormal liver function with jaundice. Tests in laboratory animals have shown cardiovascular effects and possible mutagenic activity in laboratory cell cultures.

Ethyl Acetate: Prolonged and repeated high exposure of laboratory animals resulted in secondary anemia with increase in white blood cells.

Ethyl 3-Ethoxy Propionate: Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

Ethylbenzene: (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.

Magnesium Silicate: Repeated overexposure to talc may lead to chronic lung disease.

Methyl Amyl Ketone: Ingestion studies on laboratory animals showed that very high oral doses caused increase liver and kidney weights.

Methyl Ethyl Ketone: High concentrations have caused embryo toxic effects in laboratory animals. Liquid splashes in the eyes may result in chemical burns.

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

Methyl Isobutyl Ketone: Reoccurring overexposure may result in liver and kidney damage.

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

2-Propanol: Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

Titanium Dioxide: In lifetime inhalation tests, lung cancer was found in some rats exposed to 250-mg/m³ respirable dust. Analysis showed due to overwhelmed levels this data is not relevant to the work place.

Toluene: Continuous recurrent overexposure may cause liver or kidney damage. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. **Warning:** This chemical is known to the state of California to cause birth defects or other reproductive harm.

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.

SECTION VI. REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to avoid): None reasonably foreseeable.

Hazardous Decomposition Products: CO, CO₂, Smoke.

Hazardous Polymerization: Will not occur.

SECTION VII. 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 VIII. SPECIAL PROTECTION INFORMATION

Do not breathe vapors or mists. Wear a properly fitted vapor/particulate respirator approved by NIOSH/MSHA (TC-23C) for use with paints during application and until all vapors and spray mists are exhausted. In confined spaces or in situations where continuous spray operations are typical or proper respirator fit is not possible, wear a positive-pressure, supplied-air respirator (TC-19C). In all cases, follow the respirator manufacturer's direction for respirator use. Do not permit anyone without protection in the painting area.

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 IX. 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 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 X. OTHER INFORMATION PRODUCT SPECIFICATIONS

For each product part number and chemical listing 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.

EZ211 Acetone 10-15%, Acrylic Copolymer, Acrylic Resin, Carbon Black <1%, Chlorobenzotrifluoride, Titanium Dioxide 1-5%, Toluene (11.2%).

Gallon Wt.:	11.00 lbs/gallon	Flash Point:	0°F
Wt. % Solids:	58.60	Material VOC:	1.24 lbs./gallon
Vol. % Solids:	42.90	Coating VOC:	2.10 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.98 lbs./gallon

Federally Exempt Solvent = 40.43% by volume

EZ213 Acetone 10-15%, Acrylic Copolymer, Acrylic Resin, Black Iron Oxide, Chlorobenzotrifluoride, Toluene (11.0%).

Gallon Wt.:	11.02 lbs/gallon	Flash Point:	-5°F
Wt. % Solids:	58.70	Material VOC:	1.24 lbs./gallon
Vol. % Solids:	43.20	Coating VOC:	2.10 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.97 lbs./gallon

Federally Exempt Solvent = 40.00% by volume

EZ543 Aluminum Silicate, Carbon Black <1%, Isobutyl Acetate 10-15%, Magnesium Silicate, Methyl Isobutyl Ketone (5%), 2-Propanol <5%, Red Oxide, Titanium Dioxide 1-5%, Toluene (27%).

Gallon Wt.:	10.14 lbs.	Flash Point:	52°F
Wt. % Solids:	54.80	Material VOC:	4.58 lbs./gallon
Vol. % Solids:	36.00	Coating VOC:	4.58 lbs./gallon
OSHA Storage:	1C	Solvent Density:	7.15 lbs./gallon

EZ545 Aluminum Silicate, Carbon Black 1-5%, Magnesium Silicate, Methyl Isobutyl Ketone (5%), 2-Propanol 1-5%, Iron Oxide, Toluene (40%).

Gallon Wt.:	10.17 lbs.	Flash Point:	52°F
Wt. % Solids:	54.80	Material VOC:	4.59 lbs./gallon
Vol. % Solids:	36.00	Coating VOC:	4.59 lbs./gallon
OSHA Storage:	1C	Solvent Density:	7.20 lbs./gallon

EZ601 Acrylic Polymer, Carbon Black <1%, Magnesium Silicate, Methyl Ethyl Ketone (10%), Titanium Dioxide 5-10%, Toluene (10%), Xylene (10%).

Gallon Wt.:	11.73 lbs.	Flash Point:	24°F
Wt. % Solids:	69.20	Material VOC:	3.62 lbs./gallon
Vol. % Solids:	48.50	Coating VOC:	3.62 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.06 lbs./gallon

EZ603 Acrylic Polymer, Carbon Black 5-10%, Magnesium Silicate, Methyl Ethyl Ketone (10%), Toluene (10%), Xylene (10%).

Gallon Wt.:	11.73 lbs.	Flash Point:	24°F
Wt. % Solids:	69.20	Material VOC:	3.64 lbs./gallon
Vol. % Solids:	48.50	Coating VOC:	3.64 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.06 lbs./gallon

PC3000M Phosphoric Acid, Acetone 25-30%, N-Butanol (35-40%), Water, Methyl Amyl Ketone 25-30%.

Gallon Wt.:	6.80 lbs.	Flash Point:	0°F
Wt. % Solids:	2.35	Material VOC:	4.65 lbs./gallon
Vol. % Solids:	1.07	Coating VOC:	6.65 lbs./gallon
OSHA Storage:	1C	Solvent Density:	6.71 lbs./gallon

Federal Exempt Solvent = 30.20% by Vol.

PC3000S Phosphoric Acid, Acetone 20-25%, N-Butanol (39%), Methyl Amyl Ketone (25-30%), Water, Xylene (10.54%).

Gallon Wt.:	6.87 lbs.	Flash Point:	0°F
Wt. % Solids:	2.33	Material VOC:	5.40 lbs./gallon
Vol. % Solids:	1.07	Coating VOC:	6.72 lbs./gallon
OSHA Storage:	1C	Solvent Density:	6.63 lbs./gallon

Federal Exempt Solvent = 20.0% by Vol.

PS3008 Resins and Film Formers (Proprietary), Tert Butyl Acetate 15-20%, 2-Butoxy Ethanol (1.3%), Xylene (1.5%), Methyl Isobutyl Ketone (< 1.0%), Acetone, Magnesium Silicate, Titanium Dioxide 1-5%, Methyl Amyl Keytone 10-15%, Toluene (13.8%).

Gallon Wt.:	8.82 lbs.	Flash Point:	0°F
Wt. % Solids:	38.36	Material VOC:	2.66 lbs./gallon
Vol. % Solids:	21.91	Coating VOC:	4.27 lbs./gallon
OSHA Storage:	1C	Solvent Density:	6.86 lbs./gallon

Federal Exempt Solvent = 3.20% by Vol.

PS3042 Methyl Isobutyl Ketone (18%), Xylene (9%), 2-Propanol (<5%), 2-Butoxy Ethanol (<5%), Magnesium Silicate, Titanium Dioxide 10-15%, Epoxy Resins (Proprietary).

Gallon Wt.:	10.90 lbs.	Flash Point:	60°F
Wt. % Solids:	67.25	Material VOC:	3.57 lbs./gallon
Vol. % Solids:	48.0	Coating VOC:	3.57 lbs./gallon
OSHA Storage:	1C	Solvent Density:	6.90 lbs./gallon

PS3044 Methyl Isobutyl Ketone (18%), Xylene (9%), 2-Propanol (<5%), 2-Butoxy Ethanol 1-5%, Magnesium Silicate, Titanium Dioxide 5-10%, Epoxy Resins (Proprietary).

Gallon Wt.:	10.75 lbs.	Flash Point:	60°F
Wt. % Solids:	66.80	Material VOC:	3.57 lbs./gallon
Vol. % Solids:	48.0	Coating VOC:	3.57 lbs./gallon
OSHA Storage:	1C	Solvent Density:	6.92 lbs./gallon

PS3045 Methyl Isobutyl Ketone (15%), Xylene (9%), 2-Propanol 1-5%, 2-Butoxy Ethanol 1-5%, Magnesium Silicate, Barium Sulfate, Carbon Black, Epoxy Resins (Proprietary).

Gallon Wt.:	10.87 lbs.	Flash Point:	60°F
Wt. % Solids:	68.50	Material VOC:	3.43 lbs./gallon
Vol. % Solids:	50.4	Coating VOC:	3.43 lbs./gallon
OSHA Storage:	1B	Solvent Density:	6.92 lbs./gallon

PS3051 Acrylic Resins, Butyl Acetate 5-10%, Methoxy Propyl Acetate, N-Pentyl Propionate, Tert Butyl Acetate, Xylene 1.4%, Titanium Dioxide, Magensium Silicate, Zinc Phosphate.

Gallon Wt.:	11.69 lbs.	Flash Point:	72°F
Wt. % Solids:	64.1	Material VOC:	3.24 lbs./gallon
Vol. % Solids:	44.0	Coating VOC:	3.73 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.43 lbs./gallon

PS3053 Acrylic Resins, Butyl Acetate 5-10%, Methoxy Propyl Acetate, N-Pentyl Propionate, Tert Butyl Acetate, Xylene 1.4%, Titanium Dioxide, Magensium Silicate, Zinc Phosphate, Barium Sulfate.

Gallon Wt.:	11.57 lbs.	Flash Point:	72°F
Wt. % Solids:	63.7	Material VOC:	3.24 lbs./gallon
Vol. % Solids:	44.0	Coating VOC:	3.73 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.43 lbs./gallon

PS3055 Acrylic Resins, Butyl Acetate 5-10%, Methoxy Propyl Acetate, N-Pentyl Propionate, Tert Butyl Acetate, Xylene 1.4%, Magensium Silicate, Zinc Phosphate, Barium Sulfate.

Gallon Wt.:	11.4 lbs.	Flash Point:	72°F
Wt. % Solids:	63.4	Material VOC:	3.24 lbs./gallon
Vol. % Solids:	44.0	Coating VOC:	3.73 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.42 lbs./gallon

PS3121 Acrylic Polymers, Butyl Acetate 5-10%, Magnesium Silicate, Methyl Ethyl Ketone (8%), Methyl Isobutyl Ketone (8%), Titanium Dioxide 15-20%, Xylene (14%).

Gallon Wt.:	11.19 lbs.	Flash Point:	24°F
Wt. % Solids:	63.3	Material VOC:	4.11 lbs./gallon
Vol. % Solids:	42.0	Coating VOC:	4.11 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.01 lbs./gallon

PS3123 Acrylic Polymers, Barium Sulfate, Butyl Acetate 5-10%, Carbon Black 0-5%, Magnesium Silicate, Methyl Ethyl Ketone (8%), Methyl Isobutyl Ketone (8%), Titanium Dioxide 5-10%, Xylene (14%).

Gallon Wt.:	11.15 lbs.	Flash Point:	24°F
Wt. % Solids:	63.0	Material VOC:	4.12 lbs./gallon
Vol. % Solids:	41.8	Coating VOC:	4.12 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.01 lbs./gallon

PS3125 Acrylic Polymers, Barium Sulfate, Butyl Acetate 5-10%, Carbon Black 1-5%, Magnesium Silicate, Methyl Ethyl Ketone (7.5%), Methyl Isobutyl Ketone (7.5%), Xylene (14%).

Gallon Wt.:	11.25 lbs.	Flash Point:	24°F
Wt. % Solids:	63.6	Material VOC:	4.10 lbs./gallon
Vol. % Solids:	42.0	Coating VOC:	4.10 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.01 lbs./gallon

PS3161 Acrylic Polymers, Methyl Amyl Ketone 10-15%, N-Pentyl Propionate, Tert Butyl Acetate, Titanium Dioxide 20-25%, Xylene (1%).

Gallon Wt.:	9.69 lbs.	Flash Point:	°F
Wt. % Solids:	53.8	Material VOC:	2.78 lbs./gallon
Vol. % Solids:	37.0	Coating VOC:	3.66 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.15 lbs./gallon

Federal Exempt Solvent = 24.0% by Vol.

PS3163 Acrylic Polymers, Barium Sulfate, Carbon Black, Methyl Amyl Ketone 10-15%, N-Pentyl Propionate, Tert Butyl Acetate, Titanium Dioxide 10-15%, Xylene (1.37%).

Gallon Wt.:	9.67 lbs.	Flash Point:	°F
Wt. % Solids:	53.0	Material VOC:	2.73 lbs./gallon
Vol. % Solids:	36.5	Coating VOC:	3.66 lbs./gallon
OSHA Storage:	1B	Solvent Density:	7.2 lbs./gallon

Federal Exempt Solvent = 25.5% by Vol.

