



SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: AEROSOL PRECAT FLAT Product Code: APC10

Manufactured by:
Gemini Coatings
 2300 Holloway Drive
 El Reno, OK 73036
 800-262-5710

24- Hour Emergency (Spill, Leak, Exposure or Accident):
INFOTRAC 800-535-5053
Outside USA, Call Collect 1-352-323-3500

24- Hour Emergency HAZMAT Response and MSDS Help:
EMI 800-510-8510

Product Use: A protective and/or decorative finish or accompanying product (reference label or product data sheet for more information).

Not recommended for: Any other use not detailed on product data sheet or label.

SECTION 2 - Hazards Identification

GHS Ratings:

Flammable aerosol	1	Flammable aerosol class 1
Gas under pressure	Compressed g	Entirely gaseous at -50°C
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Mutagen	1B	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence

GHS Hazards

H222	Extremely flammable material
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H318	Causes serious eye damage
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211	Do not spray on an open flame or other ignition source
P251	Pressurized container – Do not pierce or burn, even after use
P264	Wash any exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see First Aid section on this label)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water

P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P405	Store locked up
P410+P403	Protect from sunlight. Store in a well ventilated place
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501	Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations.

Signal Word: Danger



SECTION 3 - Composition/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
n-Butyl acetate 123-86-4 30% - 40%	150 ppm TWA; 710 mg/m3 TWA	150 ppm STEL (listed under Butyl acetates, all isomers) 50 ppm TWA (listed under Butyl acetates, all isomers)	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Propane 74-98-6 10% - 20%	1000 ppm TWA; 1800 mg/m3 TWA	See Appendix F: Minimal Oxygen Content, explosion hazard	NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA
Methyl ethyl ketone 78-93-3 10% - 20%	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Ethyl alcohol 64-17-5 5% - 10%	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Butane 106-97-8 5% - 10%		1000 ppm STEL (explosion hazard, listed under Butane, isomers)	NIOSH: 800 ppm TWA; 1900 mg/m3 TWA
1-Butanol 71-36-3 1% - 5%	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Nitrocellulose 9004-70-0 1% - 5%			
Isopropyl alcohol 67-63-0 1% - 5%	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

Urea, polymer with formaldehyde, butylated 68002-19-7 1% - 5%			
Ethylbenzene 100-41-4 0.1% - 1.0%	100 ppm TWA; 435 mg/m3 TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

SECTION 4 - First Aid Measures

Inhalation:

Remove exposed individual to fresh air and assist breathing if necessary. Seek medical attention.

Eye Contact:

Flush eyes with lukewarm water for 15 minutes. Seek medical attention immediately.

Skin:

Remove contaminated clothing, wash area immediately with soap and water. See physician if irritation persists.

Ingestion:

Rinse mouth out immediately. Drink 1 or 2 glasses of water to dilute. DO NOT induce vomiting. Contact physician or poison control center immediately.

SECTION 5 - Fire Fighting Measures

Alcohol Foam, CO2, Dry Chemical

Do not puncture or incinerate container. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not expose to heat or store at temperatures above 120 degrees F. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, sparks, heaters, smoking, electrical motors or static discharge distant from handling pot.

Burning may produce oxides of nitrogen and carbon.

Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots and a positive pressure NIOSH-approved self-contained breathing apparatus. A water stream can scatter flames. A spray of water may be used to cool closed containers to prevent pressure buildup and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION 6 - Accidental Release Measures

Stay upwind and away from spill or leak unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for clean up. Cover with inert material to reduce fumes. Keep out of drains, sewer or waterways.

If large spill occurs, alert spill response teams. Contact fire authorities. Notify local health and pollution control agencies.

SECTION 7- Handling and Storage

Handling:

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazardous precautions given in this sheet must be observed.

Storage:

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. DO NOT SMOKE in or near storage areas.

SECTION 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
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n-Butyl acetate 123-86-4	150 ppm TWA; 710 mg/m3 TWA	150 ppm STEL (listed under Butyl acetates, all isomers) 50 ppm TWA (listed under Butyl acetates, all isomers)	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Propane 74-98-6	1000 ppm TWA; 1800 mg/m3 TWA	See Appendix F: Minimal Oxygen Content, explosion hazard	NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA
Methyl ethyl ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Butane 106-97-8		1000 ppm STEL (explosion hazard, listed under Butane, isomers)	NIOSH: 800 ppm TWA; 1900 mg/m3 TWA
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Nitrocellulose 9004-70-0			
Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL
Urea, polymer with formaldehyde, butylated 68002-19-7			
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m3 TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

Use local exhaust as required to control vapor concentrations.
Avoid prolonged or repeated breathing of vapors.

Respiratory Protection:

If exposure exceeds TLV or PELs, use NIOSH approved respirator to prevent overexposure.

Skin Protection:

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

Eye Protection:

Wear splash proof goggles and face shield if there is a likelihood of contact with eyes.

Hygienic Practices

Wash hands thoroughly before eating or using the restroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

SECTION 9 - Physical and Chemical Properties

<p>Vapor Density Heavier Than Air</p> <p>Boiling range: 34 - 126°C</p> <p>Freezing point: N/A</p> <p>Flammability: N/A</p> <p>Autoignition temperature: 170°C</p> <p>Relative Density: N/A</p>	<p>Evaporation Rate Faster than Butyl Acetate</p> <p>Melting point: N/A</p> <p>Flash point: -139°F, -95°C</p> <p>Explosive Limits: N/A</p> <p>Decomposition temperature: N/A</p> <p>Vapor Pressure N/A</p>
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<p>Odor threshold: N/A</p> <p>SPECIFIC GRAVITY 0.7619</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Grams VOC less water: N/A</p> <p>% WT. VOLATILE (VOC) 89.4402</p> <p>Lbs VOC/Gallon Solids 93.1055</p> <p>SOLIDS VOL% 6.0942</p> <p>SPREAD @ 1 MIL 97.7502</p> <p>Appearance Sprayed Liquid Aerosol</p> <p>Physical State Liquid Aerosol</p> <p>Coating VOC (g/l) 680.9517</p> <p>Coating VOC (Lb/Gl) 5.6826</p>	<p>pH: N/A</p> <p>Solubility: N/A</p> <p>Viscosity: N/A</p> <p>% VOLUME VOLATILE (VOC) 93.7535</p> <p>% Pig. by wt. 0.4935</p> <p>VOLATILE WT% 89.6402</p> <p>DENSITY (Lb/Gal) 6.3439</p> <p>HAPS (lbs/gl) 0.0503</p> <p>Odor N/A</p> <p>Material VOC (g/l) 679.9142</p> <p>Material VOC (Lb/Gl) 5.6740</p>
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SECTION 10 - Stability and Reactivity

Stability: Stable under normal conditions.

Materials to Avoid: Strong oxidizing agents, strong alkalines, strong mineral acids.

Conditions to avoid: high heat, sparks, flames, static discharge.

Hazardous Decomposition: Oxidation may produce carbon and nitrogen oxides.
Hazardous polymerization will not occur.

SECTION 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 417mg/L

Component Toxicity

- 78-93-3 Methyl ethyl ketone
Oral LD50: 2,483 mg/kg (Rat) Dermal LD50: 5,000 mg/kg (Rabbit)
- 71-36-3 1-Butanol
Oral LD50: 700 mg/kg (Rat) Dermal LD50: 3,402 mg/kg (Rabbit)
- 67-63-0 Isopropyl alcohol
Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,059 mg/kg (Rabbit)
- 100-41-4 Ethylbenzene
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)

Primary Routes of Entry: Inhalation, Skin Contact, Eyes, Ingestion

Skin:

Skin contact can cause redness, dryness or rash. Prolonged contact can cause irritation, dry skin, cracks, and dermatitis.

Ingestion:

Can cause vomiting, nausea, diarrhea, and gastrointestinal irritation.

Inhalation:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or prolonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Eyes:

Can cause irritation, redness, tearing and blurred vision.

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
100-41-4	Ethylbenzene	0.1% - 1.0%	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
106-97-8	Butane	5% - 10%	Butane: EU REACH: Present (C) (containing >=0.1% Butadiene)
64-17-5	Ethyl alcohol	5% - 10%	Ethyl alcohol: IARC: Human carcinogen OSHA: listed

SECTION 12 - Ecological Information

Ecological Information:

Uncontrolled release of the product may result in contamination of air, ground, waterways and/or sewers.

Component Ecotoxicity

n-Butyl acetate	LC50 96 h <i>Lepomis macrochirus</i> 100 mg/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> 17 - 19 mg/L [flow-through] (EPA) EC50 72 h <i>Desmodesmus subspicatus</i> 674.7 mg/L (IUCLID)
Methyl ethyl ketone	LC50 96 h <i>Pimephales promelas</i> 3130 - 3320 mg/L [flow-through] (EPA) EC50 48 h <i>Daphnia magna</i> >520 mg/L (IUCLID); EC50 48 h <i>Daphnia magna</i> 5091 mg/L (IUCLID); EC50 48 h <i>Daphnia magna</i> 4025 - 6440 mg/L [Static] (EPA)
Ethyl alcohol	LC50 96 h <i>Oncorhynchus mykiss</i> 12.0 - 16.0 mL/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> >100 mg/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> 13400 - 15100 mg/L [flow-through] (EPA) LC50 48 h <i>Daphnia magna</i> 9268 - 14221 mg/L (IUCLID); EC50 48 h <i>Daphnia magna</i> 2 mg/L [Static] (EPA)
1-Butanol	LC50 96 h <i>Pimephales promelas</i> 1730 - 1910 mg/L [static] (IUCLID); LC50 96 h <i>Pimephales promelas</i> 1740 mg/L [flow-through] (IUCLID); LC50 96 h <i>Lepomis macrochirus</i> 100000 - 500000 µg/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> 1910000 µg/L [static] (EPA) EC50 48 h <i>Daphnia magna</i> 1983 mg/L (IUCLID); EC50 48 h <i>Daphnia magna</i> 1897 - 2072 mg/L [Static] (EPA) EC50 96 h <i>Desmodesmus subspicatus</i> >500 mg/L (IUCLID); EC50 72 h <i>Desmodesmus subspicatus</i> >500 mg/L (IUCLID)
Isopropyl alcohol	LC50 96 h <i>Pimephales promelas</i> 9640 mg/L [flow-through] (IUCLID); LC50 96 h <i>Pimephales promelas</i> 11130 mg/L [static] (IUCLID); LC50 96 h <i>Lepomis macrochirus</i> >1400000 µg/L (EPA) EC50 48 h <i>Daphnia magna</i> 13299 mg/L (IUCLID) EC50 96 h <i>Desmodesmus subspicatus</i> >1000 mg/L (IUCLID); EC50 72 h <i>Desmodesmus subspicatus</i> >1000 mg/L (IUCLID)
Ethylbenzene	LC50 96 h <i>Oncorhynchus mykiss</i> 11.0 - 18.0 mg/L [static] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 4.2 mg/L [semi-static] (EPA); LC50 96 h <i>Pimephales promelas</i> 7.55 - 11 mg/L [flow-through] (EPA); LC50 96 h <i>Lepomis macrochirus</i> 32 mg/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> 9.1 - 15.6 mg/L [static] (EPA); LC50 96 h <i>Poecilia reticulata</i> 9.6 mg/L [static] (EPA) EC50 48 h <i>Daphnia magna</i> 1.8 - 2.4 mg/L (IUCLID) EC50 72 h <i>Pseudokirchneriella subcapitata</i> 4.6 mg/L (IUCLID); EC50 96 h <i>Pseudokirchneriella subcapitata</i> >438 mg/L (IUCLID); EC50 72 h <i>Pseudokirchneriella subcapitata</i> 2.6 - 11.3 mg/L [static] (EPA); EC50 96 h <i>Pseudokirchneriella subcapitata</i> 1.7 - 7.6 mg/L [static] (EPA)

SECTION 13 - Disposal Considerations

Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations. See Section 8 for information on exposure control and necessary personal protective equipment.

SECTION 14 - Transportation Information

Ship according to the Department of Transportation (DOT) 49 CFR regulations.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	AEROSOLS, FLAMMABLE	UN1950		2.1
	Freight Class: 70			

SECTION 15 - Regulatory Information

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains the following listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

100-41-4 Ethylbenzene
64-17-5 Ethyl alcohol

The following ingredients are listed in the TSCA Section 8(b) Inventory (Hydrated forms of chemical substances are exempt from the inventory as mixtures; the anhydrous chemical substances, however, are reportable for the inventory):

100-41-4 Ethylbenzene
68002-19-7 Urea, polymer with formaldehyde, butylated
67-63-0 Isopropyl alcohol
9004-70-0 Nitrocellulose
71-36-3 1-Butanol
106-97-8 Butane
64-17-5 Ethyl alcohol
78-93-3 Methyl ethyl ketone
74-98-6 Propane
123-86-4 n-Butyl acetate

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

100-41-4 Ethylbenzene

US EPCRA (SARA Title III) Section 313 - Toxic Chemical:

100-41-4 Ethylbenzene
67-63-0 Isopropyl alcohol
71-36-3 1-Butanol

SECTION 16 - Disclaimer

Date Prepared: 11/14/2019

Date revised: 2019-11-14

Reviewer Revision

THIS DOCUMENT SUPERSEDES ANY PROVISION CONTAINED IN THE FORMS, LETTERS, AND PAPERS OF YOUR COMPANY. THIS PRODUCT IS DESIGNED AND INTENDED FOR PROFESSIONAL APPLICATION ONLY. ALL PRODUCTS SHOULD BE THOROUGHLY TESTED UNDER APPLICATION CONDITIONS PRIOR TO USE. THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE RELIABLE. HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED. INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OR WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLE LIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER.