

# **SAFETY DATA SHEET**

# **SECTION 1 - Chemical Product and Company Information**

Product Name: NEXUS PRECAT LACQUER, GLOSS Product Code: PC-0490

Manufactured by: 24- Hour Emergency (Spill, Leak, Exposure or Accident):

Gemini Coatings INFOTRAC 800-535-5053

2300 Holloway Drive Outside USA, Call Collect 1-352-323-3500

El Reno, OK 73036

800-262-5710 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 liquid	1	Flash point < 23°C and initial boiling point <= 35°C (95°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
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 cellsSubcategory 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

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H224	Extremely flammable liquid and	
	vapour	
H316	Causes mild 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**

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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
P233	Keep container tightly closed
P240	Ground/bond container and receiving
	equipment
P241	Use explosion-proof
	electrical/ventilating/light/mixers/equipm
	ent
P242	Use only non-sparking tools
P243	Take precautionary measures against
	static discharge
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

P303+P361+P35 IF ON SKIN (or hair): Remove/Take off 3 immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P33 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 P370+P378 In case of fire: Use the NFPA Class B extinguisher for extinction P405 Store locked up P403+P235 Store in a well ventilated place. Keep cool P501 Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations.

Signal Word:









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 to 40%	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Acetone 67-64-1 5 to 10%	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
Ethyl alcohol 64-17-5 5 to 10%	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Nitrocellulose 9004-70-0 5 to 10%			
Urea, polymer with formaldehyde, isobutylated 68002-18-6 5 to 10%			
1-Butanol 71-36-3 5 to 10%	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Isopropyl alcohol 67-63-0 1 to 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
Isobutyl alcohol 78-83-1 1 to 5%	100 ppm TWA; 300 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m3 TWA

DOA PLASTICIZER 103-23-1 1 to 5%			
Xylenes (o-, m-, p- isomers) 1330-20-7 1 to 5%	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	
Ethylbenzene 100-41-4 0.1 to 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
Solvent naphtha, petroleum, light aromatic 64742-95-6 0.1 to 1.0%			

#### **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. <u>DO NOT</u> induce vomiting. Contact physician or poison control center immediately.

# **SECTION 5 - Fire Fighting Measures**

# Alcohol Foam, CO2, Dry Chemical

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively. Liquid and vapor states of this substance are dangerous fire hazards and moderate explosion hazards when exposed to heat or flame. Oxidation may produce carbon and nitrogen oxides.

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. Use the National Fire Protection Association Class B extinguisher.

# **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:

Bond and ground metal containers when transferring liquid. Avoid free fall of liquid in excess of a few inches. 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 hazard 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
n-Butyl acetate 123-86-4	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Nitrocellulose 9004-70-0			
Urea, polymer with formaldehyde, isobutylated 68002-18-6			
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
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
Isobutyl alcohol 78-83-1	100 ppm TWA; 300 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m3 TWA
DOA PLASTICIZER 103-23-1			
Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	
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
Solvent naphtha, petroleum, light aromatic 64742-95-6			

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 googles and face shield if there is a likelihood of contact with eyes.

### **Hygenic 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**

Vapor Density Heavier Than Air

Boiling range: 34 - 214°C

Freezing point: N/A

Flammability: N/A

Autoignition temperature: 170°C

Relative Density: N/A

Odor threshold: N/A

**SPECIFIC GRAVITY** 0.9249

Partition coefficient (n- N/A

octanol/water):

Grams VOC less water: N/A

% WT. VOLATILE (VOC) 63.2552

Lbs VOC/Gallon Solids 25.4435

**SOLIDS VOL%** 19.1472

**SPREAD @ 1 MIL** 307.1210

Appearance Colored Liquid

Physical State Liquid

Coating VOC (g/l) 663.5203

Coating VOC (Lb/GI) 5.5372

**Evaporation Rate** Faster than Butyl

Acetate

Melting point: N/A

Flash point: 32°F,0°C

Explosive Limits: N/A

Decomposition temperature: N/A

Vapor Pressure N/A

pH: N/A

Solubility: N/A

Viscosity: N/A

% VOLUME VOLATILE (VOC) 68.8347

% Pig. by wt. 0.2566

**VOLATILE WT%** 73.6660

DENSITY (Lb/Gal) 7.7017

HAPS (lbs/gl) 0.1727

Odor N/A

Material VOC (g/l) 583.7778

Material VOC (Lb/GI) 4.8717

# **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: 207mg/L

#### **Component Toxicity**

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)

78-83-1 Isobutyl alcohol

Oral LD50: 2,460 mg/kg (Rat) Dermal LD50: 3,400 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 dermititis.

#### Ingestion:

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

#### Inhalation:

Excessive inhalation of vapors can cause nasal and repiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or porlonged 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> 100-41-4	<u>Description</u> Ethylbenzene	% Weight 0.1 to 1.0%	Carcinogen Rating Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
64-17-5	Ethyl alcohol	5 to 10%	Ethyl alcohol: IARC: Human carcinogen OSHA: listed
64742-95-6	Solvent naphtha, petroleum, light aromatic	0.1 to 1.0%	Solvent naphtha, petroleum, light aromatic: EU REACH: Present (P)

#### **SECTION 12 - Ecological Information**

#### **Ecological Information:**

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

Component Ecotoxicit	V
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n-Rutyl acetate

n-Butyl acetate	96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through] 72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L
Acetone	96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L

Ethyl alcohol	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50
	Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas:
	12400 15100 mg/L [flow through]

13400 - 15100 mg/L [flow-through]

48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2

mg/L [Static]

1-Butanol 96 Hr LC50 Pimephales promelas: 1730 - 1910 mg/L [static]; 96 Hr LC50

Pimephales promelas: 1740 mg/L [flow-through]; 96 Hr LC50 Lepomis

macrochirus: 100000 - 500000  $\mu$ g/L [static]; 96 Hr LC50 Pimephales promelas:

1910000 µg/L [static]

48 Hr EC50 Daphnia magna: 1983 mg/L; 48 Hr EC50 Daphnia magna: 1897 -

2072 mg/L [Static]

96 Hr EC50 Desmodesmus subspicatus: >500 mg/L; 72 Hr EC50 Desmodesmus

subspicatus: >500 mg/L

Isopropyl alcohol 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus:

>1400000 µg/L

48 Hr EC50 Daphnia magna: 13299 mg/L

96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50

Desmodesmus subspicatus: >1000 mg/L

lsobutyl alcohol 96 Hr LC50 Pimephales promelas: 1370 - 1670 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 375 mg/L [static] (fry); 96 Hr LC50 Lepomis macrochirus: 1480 - 1730 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1120 - 1520

mg/L [flow-through]

48 Hr EC50 Daphnia magna: 1300 mg/L; 48 Hr EC50 Daphnia magna: 1070 -

1933 mg/L [Static]

DOA PLASTICIZER 96 Hr LC50 Lepomis macrochirus: 0.48 - 0.85 mg/L [static]; 96 Hr LC50

Oncorhynchus mykiss: 0.48 - 0.85 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 0.48 - 0.85 mg/L [static] 48 Hr EC50 Daphnia magna: >1.6 mg/L

72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

Xylenes (o-, m-, p- isomers) 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50

Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 -

40.75 mg/L [static]

48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Ethylbenzene 96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50

Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr

LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L

72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50

Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella

subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella

subcapitata: 1.7 - 7.6 mg/L [static]

Solvent naphtha, petroleum, light

aromatic

96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L 48 Hr EC50 Daphnia magna: 6.14 mg/L

# **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.

Agency Proper Shipping Name UN Number Packing Group Hazard Class

DOT PAINT UN1263 II 3

Freight Class: 55

### **SECTION 15 - Regulatory Information**

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

This product contains the follosing 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):

64742-95-6 Solvent naphtha, petroleum, light aromatic

100-41-4 Ethylbenzene

1330-20-7 Xylenes (o-, m-, p- isomers)

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103-23-1 DOA PLASTICIZER
78-83-1 Isobutyl alcohol
67-63-0 Isopropyl alcohol
71-36-3 1-Butanol
68002-18-6 Urea, polymer with formaldehyde, isobutylated
9004-70-0 Nitrocellulose
64-17-5 Ethyl alcohol
67-64-1 Acetone

# US CAA Section 112 Hazardous Air Pollutants (HAPs) List

100-41-4 Ethylbenzene 1330-20-7 Xylenes (o-, m-, p- isomers)

123-86-4 n-Butyl acetate

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

100-41-4 Ethylbenzene 1330-20-7 Xylenes (o-, m-, p- isomers) 67-63-0 Isopropyl alcohol 71-36-3 1-Butanol

#### **Hazardous Material Information System (HMIS)**



#### **SECTION 16 - Disclaimer**

Date Prepared: 9/15/2016 Date revised: 2016-09-15

Reviewer Revision 2

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 SOLELIABILITY 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.