

# **SAFETY DATA SHEET**

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

Product Name: 10 DEGREE CONVERSION VARNISH Product Code: 550-0048

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	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
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
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
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

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties
	if inhaled
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the
	unborn child

### GHS Precautions

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
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
P261	Avoid breathing
	dust/fume/gas/mist/vapours/spray
P264	Wash any exposed skin thoroughly
	after handling

P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection P281 Use personal protective equipment as required P285 In case of inadequate ventilation wear respiratory protection 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 P363 Wash contaminated clothing before reuse P302+P352 IF ON SKIN: Wash with soap and water P303+P361+P35 IF ON SKIN (or hair): Remove/Take off 3 immediately all contaminated clothing. Rinse skin with water/shower P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P33 IF IN EYES: Rinse continuously with 8 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 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention P342+P311 Call a POISON CENTER or doctor/physician 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: Danger



SECTION 3 - Composition/Information on Ingredients			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	
20 to 30% 1-Butanol 71-36-3 10 to 20%	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Urea, polymer with formaldehyde, isobutylated 68002-18-6 10 to 20%			
Ethylbenzene 100-41-4 5 to 10%	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
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
Silica, amorphous, fumed, crystalline-free 112945-52-5 1 to 5%			
n-Propanol 71-23-8 1 to 5%	200 ppm TWA; 500 mg/m3 TWA	100 ppm TWA	NIOSH: 200 ppm TWA; 500 mg/m3 TWA 250 ppm STEL; 625 mg/m3 STEL
2-Propen-1-ol, polymer with ethenylbenzene 25119-62-4 1 to 5%			
Ethyl alcohol 64-17-5 0.1 to 1.0%	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Formaldehyde 50-00-0 0.1 to 1.0%	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA 0.1 ppm Ceiling (15 min)

#### **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
Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Urea, polymer with formaldehyde, isobutylated 68002-18-6			
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
Isobutyl alcohol 78-83-1	100 ppm TWA; 300 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m3 TWA
Silica, amorphous, fumed, crystalline-free 112945-52-5			
n-Propanol 71-23-8	200 ppm TWA; 500 mg/m3 TWA	100 ppm TWA	NIOSH: 200 ppm TWA; 500 mg/m3 TWA 250 ppm STEL; 625 mg/m3 STEL
2-Propen-1-ol, polymer with ethenylbenzene 25119-62-4			
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Formaldehyde 50-00-0	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA 0.1 ppm Ceiling (15 min)

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: 97 - 141°C

Freezing point: N/A

Flammability: N/A

Autoignition temperature: 343°C

Relative Density: N/A

Odor threshold: N/A

**SPECIFIC GRAVITY** 0.9907

Partition coefficient (n- N/A

octanol/water):

Grams VOC less water: N/A

**% WT. VOLATILE (VOC)** 53.3039

Lbs VOC/Gallon Solids 11.8481

**SOLIDS VOL%** 37.1140

**SPREAD @ 1 MIL** 595.3087

**Appearance** Liquid

Physical State Liquid

Coating VOC (g/l) 526.9307

Coating VOC (Lb/GI) 4.3973

**Evaporation Rate** Faster than Butyl

Acetate

Melting point: N/A

Flash point: 59°F,15°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) 62.8860

% Pig. by wt. 4.4986

**VOLATILE WT%** 53.3039

DENSITY (Lb/Gal) 8.2495

HAPS (lbs/gl) 2.3038

Odor N/A

Material VOC (g/l) 526.9307

Material VOC (Lb/GI) 4.3973

## **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**

Oral Toxicity LD50: 2,790mg/kg Inhalation Toxicity LC50: 92mg/L

<b>Component Toxicity</b>	
71-36-3	1-Butanol
	Oral LD50: 700 mg/kg (Rat) Dermal LD50: 3,402 mg/kg (Rabbit)
100-41-4	Ethylbenzene
	Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)
78-83-1	Isobutyl alcohol
	Oral LD50: 2,460 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit)
71-23-8	n-Propanol
	Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,049 mg/kg (Rabbit)
50-00-0	Formaldehyde

Oral LD50: 100 mg/kg (Rat) Dermal LD50: 270 mg/kg (Rabbit) Inhalation LC50: 1 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	<u>% Weight</u> 5 to 10%	Carcinogen Rating Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
50-00-0	Formaldehyde	0.1 to 1.0%	Formaldehyde: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
64-17-5	Ethyl alcohol	0.1 to 1.0%	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**

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

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 µg/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

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]

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]

n-Propanol 96 Hr LC50 Pimephales promelas: 4480 mg/L [flow-through]

48 Hr EC50 Daphnia magna: 3642 mg/L; 48 Hr EC50 Daphnia magna: 3339 -

3977 mg/L [Static]

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:

13400 - 15100 mg/L [flow-through]

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

mg/L [Static]

Formaldehyde 96 Hr LC50 Pimephales promelas: 22.6 - 25.7 mg/L [flow-through]; 96 Hr LC50

Lepomis macrochirus: 1510 µg/L [static]; 96 Hr LC50 Brachydanio rerio: 41 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 100 - 136 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 23.2 - 29.7 mg/L [static]

48 Hr LC50 Daphnia magna: 2 mg/L; 48 Hr EC50 Daphnia magna: 11.3 - 18 mg/L

[Static]

#### **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 Proper Shipping Name</u> <u>UN Number Packing Group Hazard Class</u>

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.

50-00-0 Formaldehyde

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

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):

50-00-0 Formaldehyde
64-17-5 Ethyl alcohol
25119-62-4 2-Propen-1-ol, polymer with ethenylbenzene
71-23-8 n-Propanol
78-83-1 Isobutyl alcohol
100-41-4 Ethylbenzene
68002-18-6 Urea, polymer with formaldehyde, isobutylated
71-36-3 1-Butanol
1330-20-7 Xylenes (o-, m-, p- isomers)

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

50-00-0 Formaldehyde 100-41-4 Ethylbenzene 1330-20-7 Xylenes (o-, m-, p- isomers)

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

50-00-0 Formaldehyde 100-41-4 Ethylbenzene 71-36-3 1-Butanol 1330-20-7 Xylenes (o-, m-, p- isomers)

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

Date Prepared: 11/9/2017 Date revised: 2017-11-09

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.

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