

SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: SUPER RETARDER Product Code: SOL-0061

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:

Flash point \geq 23°C and \leq 60°C (140°F) Flammable liquid 3

Acute Tox. 4 **Oral Toxicity** Oral>300+<=2000mg/kg **Dermal Toxicity** Acute Tox. 2 Dermal>50+<=200mg/kg

Skin corrosive 2 Reversible adverse effects in dermal tissue, Draize score: >=

P201

P262

P264

P281

2.3 < 4.0 or persistent inflammation

Eye corrosive 2A Eye irritant: Subcategory 2A, Reversible in 21 days Reproductive toxin Human or animal evidence possibly with other information 2

GHS Hazards

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or
	the unborn child

GHS Precautions

	obtain opedia mendendio belore dec
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

Do not get in eyes, on skin, or on clothing

Wash any exposed skin thoroughly

after handling

P270 Do not eat, drink or smoke when using

this product

P280 Wear protective gloves/protective

> clothing/eye protection/face protection Use personal protective equipment as

Obtain special instructions before use

required

P310 Immediately call a POISON CENTER or

doctor/physician

P321	Specific treatment (see First Aid
	section on this label)
P322	Specific measures (see First Aid
	section on this label)
P330	Rinse mouth
P361	Remove/Take off immediately all
	contaminated clothing
P362	Take off contaminated clothing and
Door	wash before reuse
P363	Wash contaminated clothing before
P301+P312	reuse
P301+P312	IF SWALLOWED: Call a POISON
	CENTER or doctor/physician if you feel unwell
P302+P350	IF ON SKIN: Gently wash with soap
	and water
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
P305+P351+P33	IF IN EYES: Rinse continuously with
8	water for several minutes. Remove
	contact lenses if present and easy to
D000 D040	do – continue rinsing
P308+P313	IF exposed or concerned: Get medical
D222 - D242	advice/attention
P332+P313	If skin irritation occurs: Get medical
P337+P313	advice/attention Get medical advice/attention
P370+P378	In case of fire: Use the NFPA Class B
107011070	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		
2-BUTOXYETHANOL 111-76-2 90 to 100%	50 ppm TWA; 240 mg/m3 TWA		NIOSH: 5 ppm TWA; 24 mg/m3 TWA		

SECTION 4 - First Aid Measures

Inhalation:

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.

The National Fire Protection Association Class B extinguisher is designed to extinguish NFPA Class IB flammable liquid fires.

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	
2-BUTOXYETHANOL	50 ppm TWA; 240 mg/m3	20 ppm TWA	NIOSH: 5 ppm TWA; 24	
111-76-2	TWA		mg/m3 TWA	

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: 168°C Freezing point: N/A Flammability: N/A

Autoignition temperature: 230°C

Relative Density: N/A

Odor threshold: N/A
SPECIFIC GRAVITY 0.9019

Partition coefficient (n- N/A octanol/water):

Grams VOC less water: N/A

% WT. VOLATILE (VOC) 100.0000

Lbs VOC/Gallon Solids 0.0000

SOLIDS VOL% 0.0000

SPREAD @ 1 MIL 0.0000

Appearance Clear Liquid

Physical State Liquid

Coating VOC (g/I) 899.9236

Coating VOC (Lb/GI) 7.5100

Evaporation Rate Faster than Butyl

Acetate

Melting point: N/A

Flash point: 140 F,60 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) 100.0000

% Pig. by wt. 0.0000

VOLATILE WT% 100.0000

DENSITY (Lb/Gal) 7.5100

HAPS (lbs/gl) 0.0000

Odor N/A

Material VOC (g/l) 899.9236

Material VOC (Lb/GI) 7.5100

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: 470mg/kg Dermal Toxicity LD50: 99mg/kg Inhalation Toxicity LC50: 450mg/L

Component Toxicity

111-76-2 2-BUTOXYETHANOL

Oral LD50: 470 mg/kg (Rat) Dermal LD50: 99 mg/kg (Rabbit) Inhalation LC50: 450 ppm (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> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u>

None N/A

SECTION 12 - Ecological Information

Ecological Information:

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

Component Ecotoxicity

2-BUTOXYETHANOL 96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis

macrochirus: 2950 mg/L

48 Hr EC50 Daphnia magna: >1000 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 NON-REGULATED

Freight Class: 55

SECTION 15 - Regulatory Information

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

This product contains a 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.

- None

This product contains a 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.

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):

111-76-2 2-BUTOXYETHANOL

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

- None

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

- None

Hazardous Material Information System (HMIS)



SECTION 16 - Disclaimer

Date Prepared: 8/13/2015 Date revised: 2015-04-13

Reviewer Revision 1

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