Date: 11/6/15

SAFETY DATA SHEET

SDS PREPARATION DATE: 11/6/2015, Version 1

Section 1 - Identification

GHS product identifier	:	White Limestone
Chemical name	:	Mixture
Synonyms	:	Coatings
Product type	:	
Material use	:	Paint and Coatings
Supplier's details	:	Giani, Inc.
ADDRESS		1 Lincoln Way St. Louis, MO 63120 Information (314) 241-7771
Emergency telephone number	:	CHEMTREC 800-424-9300 or 703-527-3887

Section 2 – Hazardous Identification

GHS Classification
According to Regulation 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
No need for classification according to GHS criteria for this product.

Physical hazards Serious Eye Damage - Category 1
Health hazards Not Classified
Environmental hazards Not Classified
Label Elements

Signal Word
Danger

Hazard Statement:
H318 Causes serious eye damage
Precautionary Statements: **Disposal**
P501 Dispose of contents/container according to applicable local, national, and international regulations.
Precautionary Statements: Prevention
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.

Precautionary Statements: Response
P303+P361+P353 If on skin (or hair): Rinse skin with water/shower.
P370+P378 In case of fire: use recommended media to extinguish.
P304+P340 If Inhaled: Remove person to fresh air and keep comfortable for breathing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P312 Call a POISON CONTROL CENTER/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see supplemental first aid instruction on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
Precautionary Statements: Storage
P403+P235 Store in a well-ventilated place. Keep cool.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Hazards not otherwise classified
No specific dangers known, if the regulations/notes for storage and handling are considered

Section 3 – Composition/information on ingredients

Component	Concentration	CAS number	GHS Symbols	GHS Statements
Water	66.94% - 71.94%	7732-18-5	N.A.	N.A
Vehicle	19.22% - 24.22%	non-hazardous proprietary	N.A.	N.A.
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	00.69% - 01.69%	9014-85-1	GHS05	H318
Polypropylene glycol	00.23% - 00.73%	25322-69-4	N.A.	N.A.
Propylene glycol	00.54% - 01.54%	57-55-6	N.A.	N.A.
Dipropylene glycol monomethyl ether	01.82% - 03.82%	34590-94-8	N.A.	N.A.
Titanium Dioxide	04.93% - 09.93%	13463-67-7	N.A.	N.A.
Bentonite	00.06% - 00.16%	1302-78-9	N.A.	N.A.
Talc	03.71% - 04.71%	14807-96-6	N.A.	N.A.
Synthetic amorphous silica	00.84% - 01.84%	112926-00-8	N.A.	N.A.

All concentrations are percent by weight
The identity of components and / or exact percentage composition may have been withheld as a trade secret.

Section 4 - First Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing
If inhaled:
Remove the affected individual into fresh air and keep the person calm. Seek medical attention.
If on skin:
Wash thoroughly with soap and water. If irritation develops, seek medical attention.
If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.
If irritation develops, seek medical attention.
If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and affects are described in the labeling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed
Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media	CO2, dry powder, dry sand, foam.
Unsuitable Extinguishing Media	Water in a jet
Flash Point	75 °C / 167 °F
Autoignition Temperature	207 °C / 405 °F
Explosion Limits	Not determined
Upper	14.0 vol%
Lower	1.1 vol%
Sensitivity to Mechanical Impact	None expected
Sensitivity to Static Discharge	None expected

Specific Hazards Arising from the substance or mixture
Hazards during fire-fighting:
Harmful vapors
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective Equipment and Precautions for Firefighters
Firefighters should be equipped with self-containing breathing apparatus and turn-out gear.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	

Section 6 - Accidental Release Measures

Further accidental release measures:
High risk of slipping due to leakage/spillage of product.

Personal Precautions Use personal protective clothing.

Environmental Precautions Do not discharge into drains/surface waters/ground water.

Methods for Containment and Clean up For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbent material in accordance with regulations.
For large amounts: Pump off product.

Section 7 - Handling and Storage


Handling

Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Keep from freezing.

Section 8 - Exposure Controls, Personal Protection

Ingredients Occupational exposure limits:

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Dipropylene glycol Monomethyl ether	100 ppm	150 ppm	600 mg/m3	N.E.
Titanium Dioxide	10 mg/m3	N.E.	15 mg/m3 (dust)	N.E.
Talc	2 mg/m3	N.E.	2 mg/m3 (Respirable fraction)	N.E.

Personal Protective Equipment
Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Chemical resistant protective gloves.

Eye Protection: Wear safety glasses with side shields (or goggles).

Other Protective Equipment: Wear protective clothing as necessary to minimize contact..

Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

Section 9 - Physical and Chemical Properties

Physical State	Liquid
Appearance	Translucent
Odor	odorless
Odor Threshold	No information available
pH	8.0 – 10.50
Melting Point/Range	No information available
Boiling Point/Range	100 °C / 212 °F
Flash Point (closed cup Setaflash)	75 °C / 167 °F
Evaporation Rate	Slower than ether
Flammability (solid,gas)	N.A.
Flammability or explosive limits	
Upper	14.0 vol%
Lower	01.1 vol%
Vapor Pressure mmHg @ 21°C	not determined
Vapor Density	Heavier than air
Relative Density	1.09
Formula Weight per Volume	9.11 Pound/Gallon
VOC g/l / lb./gallon	99.68 / 0.83
HAPS	0.00%
Percent Volatile by Weight	71.24%
Percent Volatile by Volume	76.50%
Solubility	soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	405 °F / (207 °C)
Decomposition Temperature	*No information available*
Viscosity Krebs unit	60 – 70 ku

Section 10 - Stability and Reactivity

Reactive Hazard No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties Not an oxidizer.

Chemical Stability Stable if stored and handled as prescribed/indicated.

Conditions to Avoid See SDS section 7 – Handling and storage.

Incompatible Materials Strong oxidizing agents, Acids, Bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides

Thermal decomposition Stable up to boiling point.

Hazardous Reactions No hazardous reactions when stored and handled according to instructions.

Section 11 - Toxicological Information

Effect of Overexposure - inhalation: No adverse effects due to inhalation are expected.

Effect of Overexposure - skin contact: causes skin irritation. allergic reactions are possible. prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Effect of Overexposure - eye contact: liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Effect of overexposure - ingestion: this material may be harmful or fatal if swallowed. irritating to mouth, throat and stomach.
Primary route(s) of entry: eye contact, ingestion, inhalation, skin absorption, skin contact

STOT - Single Exposure
Based on single exposure toxicity values, not classified.

STOT - Repeated Exposure Target Organs:
Based on repeated exposure toxicity values, not classified.

Carcinogenicity: The information below indicates whether each agency has listed any ingredient as a carcinogen if present at levels greater than or equal to 0.1 %.

CAS-No.	Name	NTP	OSHA	IARC
13463-67-7	Titanium Dioxide	Not labeled by NTP	Not labeled by OSHA	Group 2B

National Toxicological Program (NTP), Occupational Safety & Health Association (OSHA), International Agency for Research on Cancer (IARC) Group 1: Carcinogenic to Humans, Group 2A: Probably Carcinogenic to Humans, Group 2B: Possibly Carcinogenic to Humans, Group 3: Not Classifiable as to its Carcinogenicity to Humans

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name	Oral LD50 (mg/kg)	Dermal LD50 (mg/kg)	Vapor LC50 (mg/L)
57-55-6	Propylene Glycol	>5000 (rat)	>2000 (rabbit)	4 h > 20 (rat)
9014-85-1	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	6,300 (rat)	> 2,000 (rabbit)	1 h >20 (rabbit)
34590-94-8	dipropylene glycol monomethyl ether	>5,000 (rat)	9510 mg/kg (rabbit)	7 h 3.35 mg/l (rat)
25322-69-4	polypropylene glycol	681 (rat)	N.D.	N.D.
13463-67-7	Titanium Dioxide	> 5000 (rat)	> 5000 (rabbit)	4 h > 6.8 (rat)

Section 12 - Ecological Information

Ecotoxicity
Do not flush into surface water or sanitary sewer system.

Ecotoxicity Toxic to aquatic life. Based on acute aquatic toxicity values, not classified.

Toxicity to fish (Acute toxicity)	Low acute toxicity to fish
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	Low acute toxicity to aquatic invertebrates.
Toxicity to algae (Acute toxicity)	Low toxicity to algae.
Toxicity to fish (Chronic toxicity)	Data not available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Low chronic toxicity to aquatic invertebrates. Data not available
Toxicity to bacteria (Acute toxicity)	Low toxicity to sewage microbes.
Persistence and Degradability	Expected to be biodegradable
Bioaccumulation/ Accumulation	Not expected to bioaccumualte
Mobility	No information available

Section 13 - Disposal Considerations

Waste Disposal Methods

Waste disposal of substance: Dispose of contents/container in accordance with local/regional/national regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste under RCRA.

Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Section 14 - Transport Information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT – Not Regulated
DOT Proper Shipping Name: Paint Related Material Non Hazardous
DOT Hazard Class: Not Regulated
DOT UN/NA Number: Not Regulated
This material is not regulated as a dangerous good and can be shipped as a NON HAZARDOUS

Section 15 - Regulatory Information

FEDERAL REGULATIONS:
This product is considered non-hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200
CERCLA - SARA Hazard Category
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
None
SARA 302 Extremely Hazardous Material: No
SARA 304 CERCLA Product

Chemical Name	CAS Number	Pct by Wt.	RQ (lbs)

This product contains no known chemicals regulated under SARA 302/304.
SARA 311/312 Not Hazardous
Acute Health Hazard
SARA (313) Components in concentrations above the de minimus levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements in section 313 of SARA.

Name	CAS-No.

This product contains no known chemicals regulated under SARA 313.
State Regulations
New Jersey right-to-know:

Propylene Glycol	57-55-6
Polypropylene glycol	25322-69-4
Titanium Dioxide	13463-67-7
Talc	14807-96-6

Pennsylvania right-to-know:

Propylene Glycol	57-55-6
Polypropylene glycol	25322-69-4
dipropylene glycol monomethyl ether	34590-94-8
Titanium Dioxide	13463-67-7
Talc	14807-96-6

Massachusetts right-to-know:

Titanium Dioxide	13463-67-7
Talc	14807-96-6

California Proposition 65 Carcinogens
Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.	
Titanium Dioxide	13463-67-7	The listing is for titanium dioxide (airborne, unbound particles of respirable size) and does not cover titanium dioxide when it remains within a product matrix.

California Proposition 65 Reproductive Toxins
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
No Proposition 65 Reproductive Toxins exist in this product.

Toxic Substances Control Act:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:
No TSCA 12(b) components exist in this product.

Country	Regulatory list	Notification
USA	TSCA	This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
EU	EINECS	This product, or its components, are not listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).
Canada	DSL	This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).
Australia	AICS	This product, or its components, are listed on or are exempt from the Australian Chemical Substance List (AICS).
Japan	ENCS	This product, or its components, are not listed on or are exempt from the Japanese Chemical Substance List (ENCS)
South Korea	ECL	This product, or its components, are not listed on or are exempt from the Korean Chemical Substance List (ECL).
China	SEPA	This product, or its components, are listed on or are exempt from the Chinese Chemical Substance List (SEPA).
Philippines	PICCS	This product, or its components, are not listed on or are exempt from the Philippine Chemical Substance List (PICCS).

No other Regulatory Information!

Section 16 - Other Information

HMIS® Hazard Ratings: Health - 2, Flammability - 1, Physical Hazard – 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

Prepared By Environmental, Health and Safety Department
Email: info@espinc.us

Creation Date 11/06/15
Revision Date
Print Date 11/06/15

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

NON-WARRANTY: Any recommendation of Giani, Inc. contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, Giani, Inc. makes no warranty or representation with respect thereto. Use or application of any Giani, Inc. product is at the discretion of the Buyer without liability or obligation whatsoever of Giani, Inc.

Date: 02/15/2019

SAFETY DATA SHEET

SDS PREPARATION DATE: 02/15/2019, Version 1

Section 1 - Identification

GHS product identifier	:	WHITE PRIMER (Component 1)
Chemical name	:	Mixture
Synonyms	:	Coatings
Product type	:	
Material use	:	Paint and Coatings
Supplier's details	:	Giani, Inc.
ADDRESS		2216 North Broadway St. Louis, MO 63102 Information (314) 241-7771
Emergency telephone number	:	CHEMTREC 800-424-9300 or 703-527-3887

Section 2 – Hazardous Identification

GHS Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical hazards	Flammable liquids	Category 4
Health hazards	Serious eye damage	Category 1
	Skin sensitization	Category 1
	Acute toxicity (oral)	Category 4
	Carcinogenicity	Category 1A
Environmental hazards	Not Classified	

Label Elements

Signal Word
Warning

Hazard Statement:

H227	Combustible liquid
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H 350	May cause cancer

Precautionary Statements: Disposal

P501	Dispose of contents/container to an approved waste disposal plant.

Precautionary Statements: Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash 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.

Precautionary Statements: Response

P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P308+P3133	If exposed or concerned: Get medical advice/attention.

Precautionary Statements: Storage

P403	Store in a well-ventilated place.
P405	Store locked up.

Hazards not otherwise classified
No specific dangers known, if the regulations/notes for storage and handling are considered

Section 3 – Composition/information on ingredients

Component	Concentration	CAS number	GHS Symbols	GHS Statements
Water	17.53% - 21.53%	7732-18-5	N.A.	N.A
Vehicle	39.37% - 43.37%	non-hazardous proprietary	N.A.	N.A.
Tetramethyl-5-decyne -4,7-Diol, 2,4,7,9-,	00.02% – 00.42%	126-86-3	GHS05, GHS07	H302-315-317-318
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	00.20% - 00.60%	9014-85-1	GHS05	H318
Titanium Dioxide	19.47% - 23.47%	1346-67-7	N.A.	N.A.
Talc	00.34% - 04.34%	14807-96-6	N.A.	N.A.
Polypropylene glycol	00.30% - 00.70%	25322-69-4	N.A.	N.A.
Polyethylene glycol	00.07% - 00.47%	25322-68-3	N.A.	N.A.
Propylene glycol	00.74% - 04.74%	57-55-6	N.A.	N.A.
Dipropylene glycol monomethyl ether	00.34% - 04.34%	34590-94-8	N.A.	N.A.
Calcium Carbonate	09.50% - 13.50%	1317-65-3	N.A.	N.A.
Bentonite	00.12% - 00.52%	1302-78-9	N.A.	N.A.

All concentrations are percent by weight
The identity of components and / or exact percentage composition may have been withheld as a trade secret.

Section 4 - First Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing
If inhaled:
Remove the affected individual into fresh air and keep the person calm. Seek medical attention.
If on skin:
Wash thoroughly with soap and water. If irritation develops, seek medical attention.
If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.
If irritation develops, seek medical attention.
If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and affects are described in the labeling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed
Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media	CO2, dry powder, dry sand, foam.
Unsuitable Extinguishing Media	Water in a jet
Flash Point	75 °C / 167 °F
Autoignition Temperature	207 °C / 405 °F
Explosion Limits	Not determined
Upper	14.0 vol%
Lower	1.1 vol%

Sensitivity to Mechanical Impact None expected
Sensitivity to Static Discharge None expected

Specific Hazards Arising from the substance or mixture
Hazards during fire-fighting:
Harmful vapors
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective Equipment and Precautions for Firefighters
Firefighters should be equipped with self-containing breathing apparatus and turn-out gear.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	

Section 6 - Accidental Release Measures

Further accidental release measures:
High risk of slipping due to leakage/spillage of product.

Personal Precautions Use personal protective clothing.

Environmental Precautions Do not discharge into drains/surface waters/ground water.

Methods for Containment and Clean up For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbent material in accordance with regulations.
For large amounts: Pump off product.

Section 7 - Handling and Storage


Handling
Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Keep from freezing.

Section 8 - Exposure Controls, Personal Protection

Ingredients Occupational exposure limits:

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Calcium Carbonate	N.D.	N.D	5 mg/m3 (respirable fraction)	N.D.
Ammonium Hydroxide	18 mg/m3	27 mg/m3	35 mg/m3	N.D.
Dipropylene glycol Monomethyl ether	100 ppm	150 ppm	600 mg/m3	N.D.
Titanium Dioxide	10 mg/m3	N.E.	15 mg/m3 (dust)	N.E.

Personal Protective Equipment

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Chemical resistant protective gloves.

Eye Protection: Wear safety glasses with side shields (or goggles).

Other Protective Equipment: Wear protective clothing as necessary to minimize contact..

Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

Section 9 - Physical and Chemical Properties

Physical State	Liquid
Appearance	White
Odor	odorless
Odor Threshold	No information available
pH	8.5 – 9.5
Melting Point/Range	No information available
Boiling Point/Range	100 °C / 212 °F
Flash Point (closed cup Setaflash)	75 °C / 167 °F
Evaporation Rate	Slower than ether
Flammability (solid,gas)	N.A.
Flammability or explosive limits	
Upper	14.0 vol%
Lower	1.1 vol%
Vapor Pressure mmHg @ 21°C	not determined
Vapor Density	Heavier than air
Relative Density	1.38
Formula Weight per Volume	11.46 Pound/Gallon
VOC g/l / lb./gallon	93.35 / 0.778
HAPS	0.00%
Percent Volatile by Weight	43.5%
Percent Volatile by Volume	59.7%
Solubility	soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	405 °F / (207 °C)
Decomposition Temperature	*No information available*
Viscosity Krebs unit	68 – 72 ku

Section 10 - Stability and Reactivity

Reactive Hazard	No hazardous reactions if stored and handled as prescribed/indicated.
Oxidizing properties	Not an oxidizer.
Chemical Stability	Stable if stored and handled as prescribed/indicated.
Conditions to Avoid	See SDS section 7 – Handling and storage.
Incompatible Materials	Strong oxidizing agents, Acids, Bases
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides

Thermal decomposition Stable up to boiling point.

Hazardous Reactions No hazardous reactions when stored and handled according to instructions.

Section 11 - Toxicological Information

Effect of Overexposure - inhalation: No adverse effects due to inhalation are expected.

Effect of Overexposure - skin contact: causes skin irritation. allergic reactions are possible. prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Effect of Overexposure - eye contact: liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Effect of overexposure - ingestion: this material may be harmful or fatal if swallowed. irritating to mouth, throat and stomach.
Primary route(s) of entry: eye contact, ingestion, inhalation, skin absorption, skin contact

STOT - Single Exposure
Based on single exposure toxicity values, not classified.

STOT - Repeated Exposure Target Organs:
Based on repeated exposure toxicity values, not classified.

Carcinogenicity: The information below indicates whether each agency has listed any ingredient as a carcinogen if present at levels greater than or equal to 0.1 %.

CAS-No.	Name	NTP	OSHA	IARC
13463-67-7	Titanium Dioxide	Not labeled by NTP	Not labeled by OSHA	Group 2B

National Toxicological Program (NTP), Occupational Safety & Health Association (OSHA), International Agency for Research on Cancer (IARC) Group 1: Carcinogenic to Humans, Group 2A: Probably Carcinogenic to Humans, Group 2B: Possibly Carcinogenic to Humans, Group 3: Not Classifiable as to its Carcinogenicity to Humans

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name	Oral LD50 (mg/kg)	Dermal LD50 (mg/kg)	Vapor LC50 (mg/L)
57-55-6	Propylene Glycol	>5000 (rat)	>2000 (rabbit)	4 h > 20 (rat)
126-86-3	Tetramethyl-5-decyne -4,7-Diol, 2,4,7,9-	>2,000 (rat)	> 2,000 (rat)	1 h >20 (rat)
9014-85-1	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	6,300 (rat)	> 2,000 (rabbit)	1 h >20 (rabbit)
1302-78-9	Bentonite	>2,000 (rat)	No data available	>= 5.27 (rat)
34590-94-8	dipropylene glycol monomethyl ether	>5,000 (rat)	9510 mg/kg (rabbit)	7 h 3.35 mg/l (rat)
13463-67-7	Titanium Dioxide	> 5000 (rat)	> 5000 (rabbit)	4 h > 6.8 (rat)

Section 12 - Ecological Information

Ecotoxicity
Do not flush into surface water or sanitary sewer system.

Ecotoxicity Toxic to aquatic life. Based on acute aquatic toxicity values, not classified.

Toxicity to fish (Acute toxicity)	Low acute toxicity to fish
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	Low acute toxicity to aquatic invertebrates.
Toxicity to algae (Acute toxicity)	Low toxicity to algae.
Toxicity to fish (Chronic toxicity)	Data not available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Low chronic toxicity to aquatic invertebrates. Data not available
Toxicity to bacteria (Acute toxicity)	Low toxicity to sewage microbes.

Persistence and Degradability Expected to be biodegradable
Bioaccumulation/ Accumulation Not expected to bioaccumualte
Mobility No information available

Section 13 - Disposal Considerations

Waste Disposal Methods

Waste disposal of substance: Dispose of contents/container in accordance with local/regional/national regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste under RCRA.
Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Section 14 - Transport Information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT – Not Regulated
DOT Proper Shipping Name: Paint Related Material Non Hazardous
DOT Hazard Class: Not Regulated
DOT UN/NA Number: Not Regulated
This material is not regulated as a dangerous good and can be shipped as a NON HAZARDOUS

Section 15 - Regulatory Information

FEDERAL REGULATIONS:
This product is considered non-hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200
CERCLA - SARA Hazard Category
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
None
SARA 302 Extremely Hazardous Material: No
SARA 304 CERCLA Product

Chemical Name	CAS Number	Pct by Wt.	RQ (lbs)

This product contains no known chemicals regulated under SARA 302/304.
SARA 311/312 Not Hazardous
Acute Health Hazard, Delayed Hazard
SARA (313) Components in concentrations above the de minimus levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements in section 313 of SARA.

Name	CAS-No.

This product contains no known chemicals regulated under SARA 313.
State Regulations
New Jersey right-to-know:

Propylene Glycol	57-55-6
Polypropylene glycol	25322-69-4
Talc	14807-96-6
Titanium Dioxide	13463-67-7

Pennsylvania right-to-know:

Propylene Glycol	57-55-6
Calcium Carbonate	1317-65-3
Polypropylene glycol	25322-69-4
Talc	14807-96-6
dipropylene glycol monomethyl ether	34590-94-8
Titanium Dioxide	13463-67-7

Massachusetts right-to-know:

Calcium Carbonate	1317-65-3
Talc	14807-96-6
Titanium Dioxide	13463-67-7

Minnesota right-to-know:

Calcium Carbonate	1317-65-3

California Proposition 65 Carcinogens
Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.	
Titanium Dioxide	13463-67-7	The listing is for titanium dioxide (airborne, unbound

particles of respirable size) and does not cover titanium dioxide when it remains within a product matrix.

California Proposition 65 Reproductive Toxins
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
No Proposition 65 Reproductive Toxins exist in this product.

Toxic Substances Control Act:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:
No TSCA 12(b) components exist in this product.

Country	Regulatory list	Notification
USA	TSCA	This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
EU	EINECS	This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).
Canada	DSL	This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).
Australia	AICS	This product, or its components, are listed on or are exempt from the Australian Chemical Substance List (AICS).
Japan	ENCS	This product, or its components, are not listed on or are exempt from the Japanese Chemical Substance List (ENCS)
South Korea	ECL	This product, or its components, are not listed on or are exempt from the Korean Chemical Substance List (ECL).
China	SEPA	This product, or its components, are listed on or are exempt from the Chinese Chemical Substance List (SEPA).
Philippines	PICCS	This product, or its components, are not listed on or are exempt from the Philippine Chemical Substance List (PICCS).

No other Regulatory Information!

Section 16 - Other Information

HMIS® Hazard Ratings: Health - 2, Flammability - 1, Physical Hazard – 0
HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

Prepared By Environmental, Health and Safety Department
Email: info@espinc.us

Creation Date 02/15/2019
Revision Date
Print Date 02/15/2019

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.
NON-WARRANTY: Any recommendation of Giani, Inc. contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, Giani, Inc. makes no warranty or representation with respect thereto. Use or application of any Giani, Inc. product is at the discretion of the Buyer without liability or obligation whatsoever of Giani, Inc.

Date: 03/07/18

SAFETY DATA SHEET

SDS PREPARATION DATE: 03/07/2018, Version 1

Section 1 - Identification

GHS product identifier	:	GREYSTONE
Chemical name	:	Mixture
Synonyms	:	Coatings
Product type	:	
Material use	:	Paint and Coatings
Supplier's details	:	Giani, Inc.
ADDRESS		2216 North Broadway St. Louis, MO 63102 Information (314) 241-7771
Emergency telephone number	:	CHEMTREC 800-424-9300 or 703-527-3887

Section 2 – Hazardous Identification

GHS Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical hazards	Flammable liquids	Category 4
Health hazards	Serious eye damage	Category 1
	Acute toxicity (oral)	Category 4
Environmental hazards	Not Classified	

Label Elements

Signal Word
Warning

Hazard Statement:

H227	Combustible liquid
H302	Harmful if swallowed
H318	Causes serious eye damage

Precautionary Statements: **Disposal**

P501	Dispose of contents/container to an approved waste disposal plant.

Precautionary Statements: Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P264	Wash 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.

Precautionary Statements: Response

P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P370+P378	in case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Precautionary Statements: Storage

P403	Store in a well-ventilated place.

Hazards not otherwise classified
No specific dangers known, if the regulations/notes for storage and handling are considered

Section 3 – Composition/information on ingredients

Component	Concentration	CAS number	GHS Symbols	GHS Statements
Water	85.13% - 89.13%	7732-18-5	N.A.	N.A
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	00.49% - 00.89%	9014-85-1	GHS05	H318
Polypropylene glycol	00.04% - 00.44%	25322-69-4	N.A.	N.A.
Propylene glycol	00.34% - 00.74%	57-55-6	N.A.	N.A.
Dipropylene glycol monomethyl ether	00.79% - 04.79%	34590-94-8	N.A.	N.A.
Titanium Dioxide	02.93% - 06.93%	13463-67-7	N.A.	N.A.
C.I. Pigment Yellow 42	00.09% - 00.49%	51274-00-1	N.A.	N.A.
Carbon Black (amorphous)	00.02% - 00.42%	1333-86-4	N.A.	N.A.
Bentonite	00.05% - 00.45%	1302-78-9	N.A.	N.A.
Talc	01.70% - 05.70%	14807-96-6	N.A.	N.A.
Synthetic amorphous silica	00.64% - 01.04%	112926-00-8	N.A.	N.A.

All concentrations are percent by weight
The identity of components and / or exact percentage composition may have been withheld as a trade secret.

Section 4 - First Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing
If inhaled:
Remove the affected individual into fresh air and keep the person calm. Seek medical attention.
If on skin:
Wash thoroughly with soap and water. If irritation develops, seek medical attention.
If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.
If irritation develops, seek medical attention.
If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and affects are described in the labeling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed
Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media	CO2, dry powder, dry sand, foam.
Unsuitable Extinguishing Media	Water in a jet
Flash Point	75 °C / 167 °F
Autoignition Temperature	200 °C / 392 °F
Explosion Limits	Not determined
Upper	Not determined
Lower	Not determined
Sensitivity to Mechanical Impact	None expected
Sensitivity to Static Discharge	None expected

Specific Hazards Arising from the substance or mixture
Hazards during fire-fighting:

Harmful vapors
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective Equipment and Precautions for Firefighters
Firefighters should be equipped with self-containing breathing apparatus and turn-out gear.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	

Section 6 - Accidental Release Measures

Further accidental release measures:
High risk of slipping due to leakage/spillage of product.

Personal Precautions Use personal protective clothing.

Environmental Precautions Do not discharge into drains/surface waters/ground water.

Methods for Containment and Clean up For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbent material in accordance with regulations.
For large amounts: Pump off product.

Section 7 - Handling and Storage


Handling

Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Keep from freezing.

Section 8 - Exposure Controls, Personal Protection

Ingredients Occupational exposure limits:

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Dipropylene glycol Monomethyl ether	100 ppm	150 ppm	600 mg/m3	N.E.
Titanium Dioxide	10 mg/m3	N.E.	15 mg/m3 (dust)	N.E.
Talc	2 mg/m3	N.E.	2 mg/m3 (Respirable fraction)	N.E.
C.I. Pigment Yellow 42	5 mg/m3 (respirable dust)	N.E.	5 mg/m3 (respirable dust)	N.E.
Carbon Black (amorphous)	3 mg/m3 (inhalable dust)	N.E.	3.5 mg/m3 (inhalable dust)	N.E.
Polypropylene glycol	10 mg/m3	N.E.	N.E.	N.E.

Personal Protective Equipment

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed n exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Chemical resistant protective gloves.

Eye Protection: Wear safety glasses with side shields (or goggles).

Other Protective Equipment: Wear protective clothing as necessary to minimize contact..

Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

Section 9 - Physical and Chemical Properties

Physical State	Liquid
Appearance	Grey
Odor	odorless
Odor Threshold	No information available
pH	8.0 – 10.50
Melting Point/Range	No information available
Boiling Point/Range	100 °C / 212 °F
Flash Point (closed cup Setaflash)	75 °C / 167 °F
Evaporation Rate	Slower than ether
Flammability (solid,gas)	N.A.
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure mmHg @ 21°C	Mot determined
Vapor Density	Heavier than air
Relative Density	1.09
Formula Weight per Volume	9.12 Pound/Gallon
VOC g/l / lb./gallon	99.59 / 0.830
HAPS	0.00%
Percent Volatile by Weight	70.00%
Percent Volatile by Volume	76.60%
Solubility	soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	392 °F / (200 °C)
Decomposition Temperature	*No information available*
Viscosity Krebs unit	60 – 70 ku

Section 10 - Stability and Reactivity

Reactive Hazard No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties Not an oxidizer.

Chemical Stability Stable if stored and handled as prescribed/indicated.

Conditions to Avoid See SDS section 7 – Handling and storage.

Incompatible Materials Strong oxidizing agents, Acids, Bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides

Thermal decomposition Stable up to boiling point.

Hazardous Reactions No hazardous reactions when stored and handled according to instructions.

Section 11 - Toxicological Information

Effect of Overexposure - inhalation: No adverse effects due to inhalation are expected.

Effect of Overexposure - skin contact: causes skin irritation. allergic reactions are possible. prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Effect of Overexposure - eye contact: liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Effect of overexposure - ingestion: this material may be harmful or fatal if swallowed. irritating to mouth, throat and stomach.
Primary route(s) of entry: eye contact, ingestion, inhalation, skin absorption, skin contact

STOT - Single Exposure
Based on single exposure toxicity values, not classified.

STOT - Repeated Exposure Target Organs:
Based on repeated exposure toxicity values, not classified.

Carcinogenicity: The information below indicates whether each agency has listed any ingredient as a carcinogen if present at levels greater than or equal to 0.1 %.

CAS-No.	Name	NTP	OSHA	IARC
1333-86-4	Carbon Black	Not labeled by NTP	Not labeled by OSHA	Group 2B
13463-67-7	Titanium Dioxide	Not labeled by NTP	Not labeled by OSHA	Group 2B

National Toxicological Program (NTP), Occupational Safety & Health Association (OSHA), International Agency for Research on Cancer (IARC) Group 1: Carcinogenic to Humans, Group 2A: Probably Carcinogenic to Humans, Group 2B: Possibly Carcinogenic to Humans, Group 3: Not Classifiable as to its Carcinogenicity to Humans

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name	Oral LD50 (mg/kg)	Dermal LD50 (mg/kg)	Vapor LC50 (mg/L)
57-55-6	Propylene Glycol	>5000 (rat)	>2000 (rabbit)	4 h > 20 (rat)
9014-85-1	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	6,300 (rat)	> 2,000 (rabbit)	1 h >20 (rabbit)
34590-94-8	dipropylene glycol monomethyl ether	>5,000 (rat)	9510 mg/kg (rabbit)	7 h 3.35 mg/l (rat)
25322-69-4	polypropylene glycol	681 (rat)	N.D.	N.D.
13463-67-7	Titanium Dioxide	> 5000 (rat)	> 5000 (rabbit)	4 h > 6.8 (rat)
1333-86-4	Carbon Black (amorphous)	>8000 (rat)	N.D.	N.D.
51274-00-1	C.I. Pigment Yellow 42	>5000 (rat)	N.D.	N.D.

Section 12 - Ecological Information

Ecotoxicity
Do not flush into surface water or sanitary sewer system.

Ecotoxicity Toxic to aquatic life. Based on acute aquatic toxicity values, not classified.

Toxicity to fish (Acute toxicity)	Low acute toxicity to fish
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	Low acute toxicity to aquatic invertebrates.
Toxicity to algae (Acute toxicity)	Low toxicity to algae.
Toxicity to fish (Chronic toxicity)	Data not available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Low chronic toxicity to aquatic invertebrates. Data not available
Toxicity to bacteria (Acute toxicity)	Low toxicity to sewage microbes.
Persistence and Degradability	Expected to be biodegradable
Bioaccumulation/ Accumulation	Not expected to bioaccumualte
Mobility	No information available

Section 13 - Disposal Considerations

Waste Disposal Methods

Waste disposal of substance: Dispose of contents/container in accordance with local/regional/national regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste under RCRA.
Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Section 14 - Transport Information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT – Not Regulated
DOT Proper Shipping Name: Paint Related Material Non Hazardous
DOT Hazard Class: Not Regulated
DOT UN/NA Number: Not Regulated
This material is not regulated as a dangerous good and can be shipped as a NON HAZARDOUS

Section 15 - Regulatory Information

FEDERAL REGULATIONS:
This product is considered non-hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200
CERCLA - SARA Hazard Category
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
None
SARA 302 Extremely Hazardous Material: No
SARA 304 CERCLA Product

Chemical Name	CAS Number	Pct by Wt.	RQ (lbs)

This product contains no known chemicals regulated under SARA 302/304.
SARA 311/312 Not Hazardous
Acute Health Hazard
SARA (313) Components in concentrations above the de minimus levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements in section 313 of SARA.

Name	CAS-No.

This product contains no known chemicals regulated under SARA 313.
State Regulations
New Jersey right-to-know:

Propylene Glycol	57-55-6
Polypropylene glycol	25322-69-4
Titanium Dioxide	13463-67-7
Talc	14807-96-6
Carbon Black (amorphous)	1333-86-4

Pennsylvania right-to-know:

Propylene Glycol	57-55-6
Polypropylene glycol	25322-69-4
dipropylene glycol monomethyl ether	34590-94-8
Titanium Dioxide	13463-67-7
Talc	14807-96-6
Carbon Black (amorphous)	1333-86-4

Massachusetts right-to-know:

Titanium Dioxide	13463-67-7
Talc	14807-96-6
Carbon Black (amorphous)	1333-86-4

California Proposition 65 Carcinogens
Warning: This product contains, or may contain trace quantities of a substance known to the state of California to cause Cancer not limited to any that may be listed below:

Chemical Name	CAS-No.	
Titanium Dioxide	13463-67-7	The listing is for titanium dioxide (airborne, unbound

		particles of respirable size) and does not cover titanium dioxide when it remains within a product matrix.
Carbon black	1333-86-4	The listing is for carbon black (airborne, unbound particles of respirable size) and does not cover carbon black when it remains within a product matrix.

California Proposition 65 Reproductive Toxins
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
No Proposition 65 Reproductive Toxins exist in this product.

Toxic Substances Control Act:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:
No TSCA 12(b) components exist in this product.

Country	Regulatory list	Notification
USA	TSCA	This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
EU	EINECS	This product, or its components, are not listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).
Canada	DSL	This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).
Australia	AICS	This product, or its components, are listed on or are exempt from the Australian Chemical Substance List (AICS).
Japan	ENCS	This product, or its components, are not listed on or are exempt from the Japanese Chemical Substance List (ENCS)
South Korea	ECL	This product, or its components, are not listed on or are exempt from the Korean Chemical Substance List (ECL).
China	SEPA	This product, or its components, are listed on or are exempt from the Chinese Chemical Substance List (SEPA).
Philippines	PICCS	This product, or its components, are not listed on or are exempt from the Philippine Chemical Substance List (PICCS).

No other Regulatory Information!

Section 16 - Other Information

HMIS® Hazard Ratings: Health - 2, Flammability - 1, Physical Hazard – 0
HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

Prepared By Environmental, Health and Safety Department
Email: info@espinc.us

Creation Date 03/07/18
Revision Date
Print Date 03/07/18

Replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
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SAFETY DATA SHEET

www.CrownPolymers.com

326-A-CrownClear, A-Side
Jun 19, 2015

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID :	80-9795-326		
Product Name :	326-A-CrownClear, A-Side		
Revision Date :	Jun 19, 2015	**Date Printed :**	Jun 19, 2015
Version:	1.0	**Supersedes Date :**	N.A.
Manufacturer's Name :	Crown Polymers Corp.		
Address :	8550 W. Desert Inn Rd. Suite 102-125, Las Vegas, NV, US, 89117		
Emergency Phone :	Chemtrec:800-424-9300 (account: CCN1217) OR International:703-527-3887 (account:CCN1217)		
Information Phone :	(847) 659-0300		
Fax :	(847) 659-0310		

Product/Recommended Uses: For Further Information, Refer to the Product Technical Data Sheet.

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Skin Irritation - Category 2

Skin Sensitizer - Category 1

Eye Irritation - Category 2

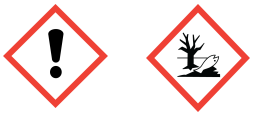
Chronic aquatic toxicity - Category 2

Acute toxicity, Dermal - Category 5

Acute toxicity, Inhalation - Category 4

Acute toxicity, Oral - Category 4

Pictograms:



Signal Word:

Warning

Hazardous Statements - Health:

H313 - May be harmful in contact with skin

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Hazardous Statements - Environmental:

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements - Response:

P312 - Call a POISON CENTER/doctor if you feel unwell.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P391 - Collect spillage.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P321 - Specific treatment (see section 4 on this SDS).

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.

Precautionary Statements - Storage:

No precautionary statement available.

Precautionary Statements - Disposal:

P501 - Dispose of contents/ container to an approved waste disposal plant.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% by Weight
0025085-99-8	BISPHENOL A EPOXY RESIN	52% - 96%
0068609-97-2	ALKYL GLYCIDYL ETHER	15% - 28%

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Skin Contact:

Rinse/wash with lukewarm, gently flowing water and mild soap for 15-20 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Specific Hazards in Case of Fire:

Excessive pressure or temperature may cause explosive rupture of containers.

Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Do not touch or walk through spilled material.
Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.
If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up:

Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, call CHEMTREC (Chemical Transportation Emergency Center) at 800-424-9300.

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool dry area. Store liquid in containers above ground and surround by dikes to contain spills or leaks.

Do not cut, drill, grind, weld, or perform similar operations on or near containers.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA-Tables-Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
No applicable chemical	-	-	-	-	-	-	-	-	-	-	-	-

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
No applicable chemical	-	-	-	-	-	-	-

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	9.58 lb/gal
Specific Gravity	1.15
VOC Regulatory	0.00 lb/gal

VOC Part A & B Combined	
Appearance	Clear Liquid
Odor Threshold	N.A.
Odor Description	Slight Aromatic
pH	N.A.
Water Solubility	N.A.
Flammability	N/A
Flash Point Symbol	N.A.
Flash Point	188 °C
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.

Vapor Density	Heavier than air
Freezing Point	N.A.
Melting Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.
Auto Ignition Temp	N.A.
Decomposition Pt	N.A.
Evaporation Rate	Slower than ether
Coefficient Water/Oil	N.A.

SECTION 10) STABILITY AND REACTIVITY

Stability:

Material is stable at standard temperature and pressure.

Conditions to Avoid:

Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause buildup of pressure.

Hazardous Reactions/Polymerization:

Will not occur but aliphatic amine will cause irreversible polymerization with considerable heat build up.

Incompatible Materials:

This product will react with materials such as amines, alkalis and acids. Avoid strong oxidizing agents. Some reactions can be violent.

Hazardous Decomposition Products:

Combustion products: organic vapors and thermal decomposition fragments.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Repeated skin contact may cause a persistent irritation or dermatitis. May also aggravate an existing skin condition.

Causes skin irritation

Serious Eye Damage/Irritation:

Causes serious eye irritation

Carcinogenicity:

No data available

Respiratory/Skin Sensitization:

Exposure may cause mucous membrane and respiratory tract irritation, tightness of chest, headache, shortness of breath, and a dry cough. The effects of acute exposure may be delayed in onset up to 12-24 hours. Repeated exposure above current occupational limits may cause an allergic sensitization of the respiratory tract. This is characterized by an asthma-like response upon re-exposure to the chemical. The symptoms may include coughing, wheezing, shortness of breath and chest tightness.

May cause an allergic skin reaction

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

Repeated exposure generally aggravates the following medical conditions : Cardiovascular disease and Chronic respiratory disease.

Aspiration Hazard:

No data available

Acute Toxicity:

Ingestion : Irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion.

Potential Health Effects - Miscellaneous

0068609-97-2 ALKYL GLYCIDYL ETHER

The following medical conditions may be aggravated by exposure: allergies, eczema, skin disorders. Irritating to the mouth, throat and stomach. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

No data available.

Toxic to aquatic life with long lasting effects

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Not Regulated

IMDG Information:

Not Regulated

IATA Information:

Not Regulated

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0025085-99-8	BISPHENOL A EPOXY RESIN	52% - 96%	DSL,SARA312,TSCA
0068609-97-2	ALKYL GLYCIDYL ETHER	13% - 24%	DSL,SARA312,TSCA

SECTION 16) OTHER INFORMATION

OTHER INFORMATION:

Note: As per GHS, category 1 is the greatest level of hazard within each class.

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

SAFETY DATA SHEET

www.CrownPolymers.com

80-9796-326
Oct 10, 2017

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID:	80-9796-326		
Product Name:	326-B-CrownClear, B-Side		
Revision Date:	Oct 10, 2017	**Date Printed:**	Oct 10, 2017
Version:	1.0	**Supersedes Date:**	N.A.
Manufacturer's Name:	Crown Polymers Corp.		
Address:	8550 W. Desert Inn Rd. Suite 102-125, Las Vegas, NV, US, 89117		
Emergency Phone:	Chemtrec:800-424-9300 (account: CCN1217) OR International:703-527-3887 (account:CCN1217)		
Information Phone Number:	(847) 659-0300		
Fax:	(847) 659-0310		

Product/Recommended Uses: For Further Information, Refer to the Product Technical Data Sheet.

SECTION 2) HAZARDS IDENTIFICATION

Classification

Acute toxicity Dermal - Category 4

Acute toxicity Inhalation - Category 4

Acute toxicity Oral - Category 4

Chronic aquatic toxicity - Category 3

Serious Eye Damage - Category 1

Skin Corrosion - Category 1

Skin Sensitizer - Category 1

Pictograms

Signal Word

Danger

Hazardous Statements - Health

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

Hazardous Statements - Environmental

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements - Response

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P312 - Call a POISON CENTER/doctor if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363 - Wash contaminated clothing before reuse.

P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.

Precautionary Statements - Storage

P405 - Store locked up.

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant.

Acute toxicity of 26.7% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000100-51-6	BENZYL ALCOHOL	35% - 65%
NOT APPLICABLE	TRADE SECRET	17% - 32%
0002855-13-2	ISOPHORONEDIAMINE	14% - 27%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Skin Contact

Rinse/wash with lukewarm, gently flowing water and mild soap for 15-20 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

Eye Contact

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Give 3 or 4 glasses of water to drink. Never give anything by mouth to an unconscious person.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

If water is used, use very large quantities of cold water.

Specific Hazards in Case of Fire

Excessive pressure or temperature may cause explosive rupture of containers.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Do not touch or walk through spilled material.
Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.
If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment

Appropriate dust or face mask to eliminate breathing foam dust particulates.

Personal Precautions

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up

Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, call CHEMTREC (Chemical Transportation Emergency Center) at 800-424-9300.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool dry area. Store liquid in containers above ground and surround by dikes to contain spills or leaks.

Do not cut, drill, grind, weld, or perform similar operations on or near containers.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

In poorly ventilated areas, a cartridge mask NIOSH approved for organic vapors is recommended under the following conditions: emergency situations, when product vapor concentration is greater than 20 ppm for a period longer than 15 min., during repair and cleaning of equipment, during transfer or discharge of the product.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

None of the chemicals in Section 3 are regulated under "OSHA_Tables_Z1_Z2_Z3", "OSHACarcinogen - OSHA Carcinogen", "OSHAtppm", "OSHAtmg", "OSHAsppm", "OSHAsmg", "ACGIHtppm", "ACGIHtmg", "ACGIHsppm", "ACGIHsmg", "nioshtppm", "nioshtmg", "nioshsppm", "nioshsmg", "NIOSH_carcinogen", "OSHA_SkinDesignation", "ACGIH_carcinogen", "ACGIH_TLV_Basis", "ACGIH_Notations"

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	8.60 lb/gal

Density	
Specific Gravity	1.03
VOC Regulatory	0.00 lb/gal

VOC Part A & B Combined	N.A.
Appearance	Liquid
Odor Threshold	N.A.
Odor Description	N.A.
pH	N.A.
Water Solubility	N.A.
Flammability	N/A
Flash Point Symbol	N.A.
Flash Point	131 °C
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.
Vapor Density	Heavier than air
Freezing Point	N.A.
Melting Point	N.A.
Low Boiling Point	247 °C
High Boiling Point	N.A.
Auto Ignition Temp	N.A.
Decomposition Pt	N.A.
Evaporation Rate	Slower than ether
Coefficient Water/Oil	N.A.

SECTION 10) STABILITY AND REACTIVITY

Stability

Material is stable at standard temperature and pressure.

Conditions to Avoid

Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause buildup of pressure.

Hazardous Reactions/Polymerization

Will not occur.

Incompatible Materials

This product will react with epoxies, isocyanates, and strong oxidizing agents. Some reactions can be violent.

Hazardous Decomposition Products

Combustion products: organic vapors and thermal decomposition fragments.

SECTION 11) TOXICOLOGICAL INFORMATION

Serious Eye Damage/Irritation

Any contact should not be left untreated.

Causes serious eye damage

Aspiration Hazard

No data available

Respiratory/Skin Sensitization

Exposure may cause mucous membrane and respiratory tract irritation, tightness of chest, headache, shortness of breath, and a dry cough. The effects of acute exposure may be delayed in onset up to 12-24 hours. Repeated exposure above current occupational limits may cause an allergic sensitization of the respiratory tract. This is characterized by an asthma-like response upon re-exposure to the chemical. The symptoms may include coughing, wheezing, shortness of breath and chest tightness.

May cause an allergic skin reaction

Carcinogenicity

No data available

Germ Cell Mutagenicity

No data available

Reproductive Toxicity

No data available

Specific Target Organ Toxicity - Repeated Exposure

Repeated exposure generally aggravates the following medical conditions : Cardiovascular disease and Chronic respiratory disease.

No data available

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

Acute Toxicity

If ingested : In humans, irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion, and injury may be severe and cause death.

Harmful in contact with skin

Harmful if inhaled

Harmful if swallowed

Specific Target Organ Toxicity - Single Exposure

No data available

0000100-51-6 BENZYL ALCOHOL

LC50(Inhalation, rat):>500 mg/m3; Toxic effects: Behavioral - somnolence (general depressed activity) Behavioral - ataxia Lungs, Thorax, or Respiration - respiratory depression; Reference: VCVGK* "Vrednie chemichescie veshestva, galogen I kislorod sodergashie organicheskie soedinenia". (Hazardous substances. Galogen and oxygen containing substances), Bandman A.L. et al., Chimia, 1994. Volume (issue)/page/year: -,132,1984

LD50(Dermal, rabbit): 2000 mg/kg; VCVGK* "Vrednie chemichescie veshestva, galogen I kislorod sodergashie organicheskie soedinenia". (Hazardous substances. Galogen and oxygen containing substances), Bandman A.L. et al., Chimia, 1994. Volume (issue)/page/year: -,132,1984

LD50(Oral, rat): 1230 mg/kg; Toxic effects: Behavioral - somnolence (general depressed activity) Behavioral - excitement Behavioral - coma

0002855-13-2 ISOPHORONEDIAMINE

LD50 (rat,oral): 1,030 mg/kg (based on raw material SDS)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Harmful to aquatic life with long lasting effects

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information

UN/NA #: 2735
UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)
Hazard Class: 8
Packing Group: III
Placard: Corrosive

IMDG Information

UN/NA #: 2735
UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)
Hazard Class: 8
Packing Group: III
Placard: Corrosive
Marine Pollutant: No data available

IATA Information

UN/NA #: 2735
UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)
Hazard Class: 8
Packing Group: III
Placard: Corrosive

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000100-51-6	BENZYL ALCOHOL	35% - 65%	DSL,SARA312,VOC,TSCA
0002855-13-2	ISOPHORONEDIAMINE	14% - 27%	DSL,SARA312,VOC,TSCA

SECTION 16) OTHER INFORMATION

OTHER INFORMATION

Note: As per GHS, category 1 is the greatest level of hazard within each class.

GLOSSARY

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; CA Prop65- California Proposition 65; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing

Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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