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## 1. Product and Company Identification

Product Name	CaraPol APU-719
Chemical Formula	Polyurethane Resin
Supplier Information	CaraChem PO Box 432 Goldens Bridge, NY 10526
Emergency Phone Number	914.273.0300
Contact Person	Sam Morell
Date	December 22, 2016

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## 2. Hazardous Identification

### Classification

OSHA Regulatory Status      This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation:      Category 2A

### Label Elements

#### Warning

#### Hazard Statements

Causes serious eye irritation



Appearance: Opaque

Physical State: Liquid

Odor: Slight

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists. Get medical advice/attention.

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## 2. Hazardous Identification

### Hazards not otherwise classified (HNOC)

Not applicable.

### Other Information

Harmful to aquatic life.

Unknown Acute Toxicity. 0.09% of the mixture consists of ingredient(s) of unknown toxicity.

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## 3. Composition/Information on Ingredients

Synonyms: Polyurethane Resin.

Chemical Characterization: Mixture.

Chemical nature: Polyurethane Resin

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium dioctyl sulfosuccinate	577-11-7	1 - 5	*

Ingredients not listed in this section are non-hazardous or proprietary.

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

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## 4. First Aid Measures

### First Aid Measures

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration. If symptoms persist call a physician.
Ingestion	If sprayed in mouth, rinse mouth with water. If swallowed, get help or contact a Poison Control Center. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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## 5. Fire-Fighting Measures

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None.

### Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

### Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with the skin and the eyes.

### Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

Methods for Containment Contain spill with inert material (e.g. sand, silical gel, binder).

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

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## 7. Handling and Storage

### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Stir before use.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Keep from freezing.

Incompatible Products Strong oxidizing agents.

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## 8. Exposure Controls / Personal Protection

### Control Parameters

**Exposure Guidelines**                      This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Measures**                      Showers/Eyewash Stations/Ventilation systems.  
Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      Tightly fitting safety goggles.

**Skin and Body Protection**                      Wear protective gloves and protective clothing.

**Respiratory Protection**                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**                      Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity	1.02
pH	8.6	Flash Point	Not Applicable
Appearance	Opaque	Odor	Slight
Oxidizing Properties	No information available	Odor Threshold	No information available
Water Solubility	Miscible with water	Explosive Properties	No information available
Kinematic Viscosity	<300 cps	Dynamic Viscosity	No information available
Boiling Point/Range	100°C/212°F	Color	White
VOC Content (%)	0.8 wt/wt	Density	1.02 g/cm <sup>3</sup>

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## 10. Stability and Reactivity

Reactivity	Not Applicable.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	None under normal processing.
Conditions to Avoid	Heat, flames and sparks. Do not freeze.
Incompatible Products	Strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapours.

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## 11. Toxicological Information

### Information on likely routes of exposure

Product Information	No toxicity data are available on this product. The health hazard assessment is based on properties of the components.
Eye Contact	Causes serious eye irritation.

### Component Information

Chemical Name	Oral LD50	Dermal LD 50	Inhalation LC50
Sodium Dioctyl Sulfosuccinate 577-11-7	=1900 mg/kg (Rat)	=10000 mg/kg (Rabbit)	-

### Information on toxicological effects

Symptoms	No information available.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Germ Cell Mutagenicity	None known.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA.

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## 11. Toxicological Information

Reproductive Effects	None known.
Developmental Toxicity	None known.
Teratogenicity	None Known.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Neurological Effects	None known.
Aspiration Hazard	No information available.

### Numerical Measure os Toxicity - Product Information.

Unknown Acute Toxicity 0.09% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	>5000
ATEmix (dermal)	>5000
ATEmix (inhalation-dust/mist)	>5

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## 12. Ecological Information

### Ecotoxicity

Harmful to aquatic life

29.66% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Sodium Dioctyl Sulfosuccinate 577-11-7	Not Applicable	20-40 mg/L: 96h Oncorhynchus mykiss LC50 semi-static 24 mg/L: 96h Oncorhynchus mykiss LC50 static 37 mg/L: 96h Lepomis macrochirus LC50 static	36mg/L: 48h Daphnia magna EC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility in Environmental Media: No information available.

Other Adverse Effects: No information available.

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### 13. Disposal Considerations

#### Waste treatment methods

Waste Disposal Methods: Can be disposed as waste water, when in compliance with local regulations. Should not be released into the environment.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

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### 14. Transport Information

DOT Not regulated.

TDG Not regulated.

ICAO/IATA Not regulated.

IMDG/IMO Not regulated.

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### 15. Regulatory Information

#### International Inventories

TSCA - United States Toxic Substances Control Section 8(b) Inventory	Complies
EINECS/ELINCS	Complies
ENCS- Japan Existing and New Chemical Substances	Complies
PICCS - Philippines Inventory of Chemicals and Chemical Substances	Complies

**Legend:** EINECS/ELINCS - European inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances.

#### U.S. Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This product does not contain any chemicals subject to reporting requirements (RQ) of CERCLA (40 CFR 302.4).

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## 15. Regulatory Information

### U.S. State Regulations

#### California Proposition 65

This product contains one or more substances listed on California Proposition 65.

### State Right-to-Know

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Triethylamine	X	X	X
CAS #121-44-8			

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## 16. Other Information

### NFPA

Health Hazards 2                      Flammability 0                      Instability 0

### HMIS

Health Hazards 2                      Flammability 0                      Physical Hazards 0

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. CaraChem assumes no responsibility for injury of third persons caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet. Additionally, CaraChem assumes no responsibility for injury to third persons caused by abnormal use of material even if reasonable safety procedures are followed.