



# SAFETY DATA SHEET

## Formula 131 - PART A

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### Section 1. Product and Company Identification

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Product Name: **STAIN SECURE-PART A**  
Chemical Name/Family: Acrylic urethane based prepolymers, monomers and additives in water with activator  
CAS No.: Trade Secret  
Product Use: Coating on natural stones when mixed with PART B  
Developer Company: Formula 131 LLC  
Address: 92 Park Street, Rutland VT 05701  
Telephone: 802 773-1228  
Fax: 802 773-1171  
24 Hour Emergency Number: 802 773-1228  
24 Hour Chemtrec Number: N/A

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### Section 2. Hazards Identification

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#### GHS Classification

Hazard Class 1

Category: N/A

#### GHS Label:

Symbol: N/A

Signal Word: N/A

#### Hazard Classification:

Hazard Statement:

This product is not considered as Hazardous per OSHA.

Precautionary Statement:

Prevention - N/A

Response - N/A

Storage - Floor Surface of storage place should be made of non-perishable material



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Disposal-in accordance with local regulations

## Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Butyl carbitol		12.3
Acylic and urethane prepolymer		60.0 to 65.0
Additives and monomers		7.0 to 10.0

## Section 4. First Aid Measures

<b>Skin Contact:</b>	Use personal protective clothing as needed by the circumstance of use. Wash thoroughly with soap and water.
<b>Eye Contact:</b>	Safety glasses, goggles, face shields.
<b>Inhalation:</b>	If exposed to fumes from overheating, move to fresh air. Consult with a physician if needed.
<b>Ingestion:</b>	Get medical help.

## Section 5. Firefighting Measures

<b>Specific Hazards in Case of Fire:</b>	None
<b>Fire Extinguishing Media:</b>	Use dry chemical, alcohol resistant foam, water spray or carbon dioxide surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None
<b>Special Protective Equipment and Precaution for Firefighters:</b>	Wear self contained breathing apparatus in confined areas or when exposed to combustion products.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Do not use heavy water stream

## Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Use personal protective clothing
<b>Protective Equipment:</b>	Wear appropriate mask, goggles and gloves to avoid contact with eyes and skin.
<b>Environmental Precautions:</b>	Prevent entry into sewers and public water
<b>Methods and Materials for Containment and Cleaning up:</b>	Take up with absorbent material (e.g. sand, general purpose binder)



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## Section 7. Handling and Storage

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**Handling Conditions:** Wear appropriate mask, goggles and gloves. Hands should be washed thoroughly with soap and water.

**Storage Conditions:** Storage place should be constructed of non-perishable material

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## Section 8. Exposure Control/Personal Protection

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**Exposure Limits:** N/D

**Appropriate engineering controls:** If spraying, use with appropriate local exhaust ventilation.

**Personal protective equipment:**

Respiratory Protection: Ventilation, local exhaust.

Hand Protection: Impermeable gloves.

Eye Protection: Safety glass, goggles, face shield.

Skin and Body Protection: Use personal protective clothing as needed by the circumstance of use.

Other Protective Equipment: N/D

Hygiene Measures: N/D

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## Section 9. Physical and Chemical Properties

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**Physical State:** Liquid

**Color:** White

**Odor:** Characteristic odor of emulsion.

**Odor Threshold:** N/A

**% Non-volatile by Weight:** N/A

**pH:** 8

**Specific Gravity (77°F):** 1.008      weight per gallon 8.4 lbs/gallon

**% Volatile by Weight:** N/A

**Melting Point:** N/A

**Freezing Point:** Below 32°F

**Boiling point:** 212°F

**Flash Point:** N/D

**Evaporation Rate (BuAc=1):** N/D

**Flammability:** Nonflammable

**Explosion Limits:** N/A

**Vapor Pressure (mmHg):** N/A

**Vapor Density (Air=1):** N/A



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**Solubility:** Soluble with water  
**Partition Coefficient:** N/A  
**Auto-ignition Temperature:** 60-80°F  
**Viscosity:** 35 seconds in Zahn cup 1  
**Decomposition Temperature:** N/D

## Section 10. Stability and Reactivity

**Chemical Stability:** Stable under normal temperature and pressure.  
**Hazardous Polymerization:** May not occur.  
**Conditions to Avoid:** Overheating and freezing.  
**Incompatible Materials:** Strong acid and bases  
**Hazardous Decomposition Products:** In a fire situation, hydrogen chloride, hydrogen fluoride, carbon monoxide, carbon dioxide may be liberated.

## Section 11. Toxicological Information

### Primary Routes of Entry:

Eye:		Skin:		Inhalation:		Ingestion:	
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### Potential Health Effects:

Inhalation: N/E  
Ingestion: N/E  
Skin: N/E  
Eyes: N/E

### Signs and Symptoms of Exposures:

Exposures: N/E  
Acute Toxicity: N/E  
Chronic Toxicity: N/E  
Respiratory or Skin Sensitization: N/E  
Mutagenicity: N/E  
Carcinogenicity:

IARC:	No	NTP:	No	OSHA:	No
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## Section 12. Ecological Information

**Ecotoxicity (Aquatic and Terrestrial):** N/E  
**Bioaccumulative Potential:** N/E  
**Mobility in Soil:** N/E



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**PBT and vPvB Assessment:** N/E  
**Other Adverse Effects:** N/E

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## Section 13. Disposal Considerations

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**Product:** Comply with all federal, state and local regulations.  
**Disposing of Contaminated Packaging:** Comply with all federal, state and local regulations.

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## Section 14. Transport Information

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### Land Transport (DOT):

UN Number: N/A  
UN Proper Shipping Name: N/A  
Transport Hazard Class: Not classified.  
Packing Group: Not classified.

### Sea Transport (IMDG):

UN Number: N/A  
UN Proper Shipping Name: N/A  
Transport Hazard Class: N/A  
Packing Group: N/A

### Air Transport (IATA):

UN Number: N/A  
UN Proper Shipping Name: N/A  
Transport Hazard Class: N/A  
Packing Group: N/A

**Environmental Hazards (e.g., Marine pollutant):** No

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## Section 15. Regulatory Information

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### International Inventories:

TSCA (USA): N/E  
DSL (Canada): N/E  
ENCS (Japan): N/E  
REACH (Europe): N/E  
IECSC (China): N/E  
KECL (Korea): N/E  
PICCS (Philippines): N/E  
AICS (Australia): N/E



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ERMA (New Zealand):	N/E
<b>Federal Regulations:</b>	
SARA 313:	N/A
SARA 311/312:	
Clean Water Act:	
Clean Air Act, Section 112 HAPs (See 40CFR61):	N/A
<b>State Regulations:</b>	
Massachusetts Right to Know Components:	N/A
New Jersey Right to Know Components:	N/A
Pennsylvania Right to Know Components:	N/A
California Proposition 65:	N/A

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## Section 16. Other Information

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### NFPA Rating

Health Hazard: Excessive exposure to vapors or spray mist may cause headaches or dizziness. If ingested get medical attention immediately.

Fire Hazard: Fire fighters and others exposed to vapors of combustion should wear self contained breathing apparatus.

Reactivity Hazard: None

- N/E: Not Established
- N/A: Not Applicable
- N/D: No Data
- ACGIH: American Conference of Governmental Industrial Hygienists
- T.C.C: Tag Closed Cup
- C.O.C.: Cleveland Open Cup



# SAFETY DATA SHEET

## FORMULA #131 - PART B

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### Section 1. Product and Company Identification

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Product Name: **FORMULATION #131-PART B**  
Chemical Name/Family: Fluoropolymer and diluent in water-to be mixed with Part A  
CAS No.: Trade Secret  
Product Use: Coating on natural stones when mixed with PART A  
Developer Company: Formula 131 LLC  
Address: 92 Park Street, Rutland VT 05701  
Telephone: 802 773-1228  
Fax: 802 773-1171  
24 Hour Emergency Number: 802 773-1228  
24 Hour Chemtrec Number: N/A

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### Section 2. Hazards Identification

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#### GHS Classification

Hazard Class 1

Category: N/A

#### GHS Label:

Symbol: N/A

Signal Word: N/A

#### Hazard Classification:

#### Hazard Statement:

This product is not considered as Hazardous per OSHA.

#### Precautionary Statement:

Prevention - N/A

Response - N/A

Storage - Floor Surface of storage place should be made of non-perishable material.

Disposal-in accordance with local regulations



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## Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Butyl carbitol Fluoropolymer		10.0 to 10.6 20.0 to 25.0
Fluoro prepolymers		Less than 1%

## Section 4. First Aid Measures

<b>Skin Contact:</b>	Use personal protective clothing as needed by the circumstance of use. Wash thoroughly with soap and water.
<b>Eye Contact:</b>	Safety glasses, goggles, face shields.
<b>Inhalation:</b>	If exposed to fumes from overheating, move to fresh air. Consult with a physician if needed.
<b>Ingestion:</b>	Get medical help.

## Section 5. Firefighting Measures

<b>Specific Hazards in Case of Fire:</b>	None
<b>Fire Extinguishing Media:</b>	Use dry chemical, alcohol resistant foam, water spray or carbon dioxide surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None
<b>Special Protective Equipment and Precaution for Firefighters:</b>	Wear self contained breathing apparatus in confined areas or when exposed to combustion products.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Do not use heavy water stream

## Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Use personal protective clothing
<b>Protective Equipment:</b>	Wear appropriate mask, goggles and gloves to avoid contact with eyes and skin.
<b>Environmental Precautions:</b>	Prevent entry into sewers and public water
<b>Methods and Materials for Containment and Cleaning up:</b>	Take up with absorbent material (e.g. sand, general purpose binder)

## Section 7. Handling and Storage

<b>Handling Conditions:</b>	Wear appropriate mask, goggles and gloves. Hands should be washed thoroughly with soap and water.
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**Storage Conditions:** Storage place should be constructed of non-perishable material

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## Section 8. Exposure Control/Personal Protection

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**Exposure Limits:** N/D  
**Appropriate engineering controls:** If spraying, use with appropriate local exhaust ventilation.  
**Personal protective equipment:**  
Respiratory Protection: Ventilation, local exhaust.  
Hand Protection: Impermeable gloves.  
Eye Protection: Safety glass, goggles, face shield.  
Skin and Body Protection: Use personal protective clothing as needed by the circumstance of use.  
Other Protective Equipment: N/D  
Hygiene Measures: N/D

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## Section 9. Physical and Chemical Properties

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**Physical State:** Liquid  
**Color:** Milky White  
**Odor:** Characteristic odor of emulsion.  
**Odor Threshold:** N/A  
**% Non-volatile by Weight:** N/A  
**pH:** 7  
**Specific Gravity (77°F):** 1.09 lbs/gallon weight per gallon 9.1  
**% Volatile by Weight:** N/A  
**Melting Point:** N/A  
**Freezing Point:** Below 32°F  
**Boiling point:** 212°F  
**Flash Point:** N/D  
**Evaporation Rate (Bu Ac=1):** N/D  
**Flammability:** Nonflammable  
**Explosion Limits:** N/A  
**Vapor Pressure (mmHg):** N/A  
**Vapor Density (Air=1):** N/A  
**Solubility:** Miscible in water  
**Partition Coefficient:** N/A  
**Auto-ignition Temperature:** 60-80°F



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**Viscosity:** 40 seconds in Zahn cup 1  
**Decomposition Temperature:** N/D

## Section 10. Stability and Reactivity

**Chemical Stability:** Stable under normal temperature and pressure.  
**Hazardous Polymerization:** May not occur.  
**Conditions to Avoid:** Overheating and freezing.  
**Incompatible Materials:** Strong acid and bases  
**Hazardous Decomposition Products:** In a fire situation, hydrogen chloride, hydrogen fluoride, carbon monoxide, carbon dioxide may be liberated.

## Section 11. Toxicological Information

### Primary Routes of Entry:

Eye:		Skin:		Inhalation:		Ingestion:	
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### Potential Health Effects:

Inhalation N/E  
 Ingestion: N/E  
 Skin: N/E  
 Eyes: N/E

### Signs and Symptoms of

**Exposures:** N/E  
**Acute Toxicity:** N/E  
**Chronic Toxicity:** N/E  
**Respiratory or Skin Sensitization:** N/E  
**Mutagenicity:** N/E  
**Carcinogenicity:** N/E

IARC:	No	NTP:	No	OSHA:	No
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## Section 12. Ecological Information

**Ecotoxicity (Aquatic and Terrestrial):** N/E  
**Bioaccumulative Potential:** N/E  
**Mobility in Soil:** N/E  
**PBT and vPvB Assessment:** N/E  
**Other Adverse Effects:** N/E

## Section 13. Disposal Considerations

**Product:** Comply with all federal, state and local regulations.



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**Disposing of Contaminated Packaging:** Comply with all federal, state and local regulations.

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## Section 14. Transport Information

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### Land Transport (DOT):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	Not classified.
Packing Group:	Not classified.

### Sea Transport (IMDG):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

### Air Transport (IATA):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

**Environmental Hazards (e.g., Marine pollutant):** No

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## Section 15. Regulatory Information

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### International Inventories:

TSCA (USA):	N/E
DSL (Canada):	N/E
ENCS (Japan)	N/E
REACH (Europe):	N/E
IECSC (China):	N/E
KECL (Korea):	N/E
PICCS (Philippines):	N/E
AICS (Australia):	N/E
ERMA (New Zealand):	N/E

### Federal Regulations:

SARA 313:	N/A
SARA 311/312:	
Clean Water Act:	
Clean Air Act, Section 112 HAPs (See	N/A



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40CFR61):

## State Regulations:

Massachusetts Right to Know Components:	N/A
New Jersey Right to Know Components:	N/A
Pennsylvania Right to Know Components:	N/A
California Proposition 65:	N/A

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## Section 16. Other Information

---

### NFPA Rating

Health Hazard: Excessive exposure to vapors or spray mist can cause headaches, or dizziness. If ingested get medical attention immediately.

Fire Hazard: Fire fighters and others exposed to vapors of combustion should wear self contained breathing apparatus.

Reactivity Hazard: None

- N/E: Not Established
- N/A: Not Applicable
- N/D: No Data
- ACGIH: American Conference of Governmental Industrial Hygienists
- T.C.C: Tag Closed Cup
- C.O.C.: Cleveland Open Cup

# Safety Data Sheet

## Green All Purpose Cleaner

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Supplier</b>	RGA Enterprises, Inc. 4001 Performance Rd. Charlotte, NC 28214	<b>Telephone</b> (704)398-0487
<b>Product Name</b>	Green All Purpose Cleaner	
<b>Recommended Use</b>	Cleaning Compound	
<b>Restrictions on Use</b>	Keep away from children	
<b>Emergency Contact / Number</b>	ChemTel / (800) 255-2924	

### SECTION 2: HAZARD IDENTIFICATION

**Hazards** Product is not classified

**Signal Word** Not Applicable

**Precautionary Statements**  
Not Applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#	Component Percent
Non-hazardous solution; contains ethanolamine (141-43-5)	Mixture	100

### SECTION 4: FIRST AID MEASURES

#### Eye Contact

Not hazardous but mist or fumes may be irritating. Flush eyes with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Seek prompt medical attention if irritation occurs and persists.

#### Skin Contact

Not hazardous. Wash exposed area with soap and water if irritation occurs. Remove contaminated clothing and shoes while washing and launder before reuse. Seek medical attention if pain or irritation occurs and persists.

#### Ingestion

Not hazardous. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if discomfort occurs and persists.

#### Inhalation

Not hazardous. Remove affected person from source of exposure. Get medical attention if pain, irritation or discomfort occurs and persists. Give oxygen or artificial respiration if breathing is difficult or stopped.

#### Most Important Symptoms and Effects, Acute and Delayed

Eye irritation which persists after rinsing eyes.

#### Indication of Immediate Medical Attention Needed

Eye pain or loss of vision.

### SECTION 5: FIREFIGHTING MEASURES

#### Suitable Extinguishing Media

Product does not burn. Use water spray, dry chemical, foam or CO<sub>2</sub> as applicable for burning materials. Use a water spray to cool structures, fire-exposed containers, and to protect personnel. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment.

#### Special Firefighting Procedures / Unusual Firefighting Hazards

Not Applicable

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

See Section 8 for personal protective gear.

**Personal Precautions**

Isolate release area and keep unnecessary or untrained people away. Avoid skin or eye contact with spilled material.

**Environmental Precautions**

Contain spill if it can be done with minimal risk. Advise EPA, state or local agencies as required.

**Methods for Cleaning Up**

Spill areas may be slippery. Mop up small spills. Dike area with sand or other material for large spills. Flush area with water to neutralize and remove slip hazard. Do not discharge large amounts to the environment.

**SECTION 7: HANDLING AND STORAGE**

See Section 8 for personal protective gear.

**Handling**

Use good hygiene practices when handling product, including changing and laundering work clothes after use. Wash hands at break, end of shift or before eating or using restroom. Avoid eye contact. Wash exposed skin areas thoroughly after handling. Treat containers with same caution as when handling the contents. Keep containers tightly closed when not in use. When unloading bulk vehicles, personnel should wear chemical goggles and rubber or neoprene gloves to avoid prolonged contact.

**Storage**

Keep product in labeled or original container. Keep closed when not in use. Store in a cool, dry, well ventilated area. Empty product containers of this material may retain residues; observe all warnings and precautions listed for the product.

**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

**Exposure Limits**

Component Name	OSHA TWA	ACGIH TWA
Monoethanolamine	3 ppm	3 ppm

**Engineering Controls**

Very unlikely to be necessary. Use local or general exhaust to maintain good air quality.

**Eye and Face Protection**

May be irritating. Wear safety glasses or goggles to protect eyes. Use a face shield if splashing is possible such as when pouring or transferring large volumes.

**Skin Protection**

Not hazardous. Wear gloves or other protective clothing as appropriate to avoid prolonged skin contact.

**Respiratory Protection**

May be irritating. Not hazardous.

**General Hygiene**

Follow accepted work practices for handling cleaners or chemicals. Do not eat, drink or smoke in areas where this product is used or stored. Wash after task or shift, when using the restroom or before eating.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance/Physical State</b>	Clear liquid	<b>Flash Point (PMCC)</b>	Not Applicable
<b>Specific Gravity (20 °C)</b>	1.0	<b>Upper Flammability Limits (% by volume)</b>	Not Applicable
<b>Evaporation Rate (butyl acetate = 1)</b>	Equal to water	<b>Lower Flammability Limits (% by volume)</b>	Not Applicable
<b>pH</b>	9.0 – 9.5	<b>Auto-ignition Temperature</b>	Not Applicable
<b>Solubility in Water</b>	Complete	<b>Decomposition Temperature</b>	Not Applicable
<b>Odor</b>	Mild, citrus	<b>Vapor Pressure</b>	Not Determined
<b>Odor Threshold</b>	Not Determined	<b>Vapor Density (Air=1)</b>	Not Determined
<b>Melting/Freezing Point</b>	30 °F, -1 °C	<b>Partition Coefficient (n-octanol/water)</b>	Not Determined
<b>Boiling Range</b>	Not Determined	<b>Viscosity</b>	Not Determined
<b>Initial Boiling Point</b>	212 °F, 100 °C	<b>Critical Temperature</b>	Not Determined

Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal use and storage conditions.

**Chemical Stability**

Stable under normal use and storage conditions.

**Possibility of Hazardous Reactions**

Will not occur under normal conditions.

**Conditions to Avoid**

None known

**Incompatible Materials**

None known

**Hazardous Decomposition Products**

Not Applicable

**SECTION 11: TOXICOLOGICAL INFORMATION**

In accordance with OSHA's Hazard Communication Standard 1910.1200, this mixture is assumed to have the same health hazards as its significant components.

**Eye Contact**

Eyes may be irritated if not rinsed out. See Section 4.

**Skin Contact**

Not hazardous

**Ingestion**

Not toxic but may cause gastrointestinal irritation if swallowed. See Section 4.

**Inhalation**

Prolonged mist or vapor inhalation can cause reversible irritation to the nose, throat, and respiratory tract.

**Target Organ Effects**

None known

**Pre-existing Conditions**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be susceptible to the effects of this product.

**Chronic Effects**

Any acute symptoms may be aggravated by long term exposure. Refer to Section 4 for recommended actions.

**Reproductive Effects**

No known reproductive or developmental effects.

**Mutagenicity and Carcinogenicity**

No components are found by NTP, IARC or OSHA to be mutagens or carcinogens.

**SECTION 12: ECOLOGICAL INFORMATION**

Product is non-toxic, fully soluble in water and biodegradable. Contains no or very low levels of environmentally hazardous materials.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Empty containers may contain residues. Triple rinse before recycling or disposing. Always dispose of container in accordance with local, state, and/or federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT Information**

Not Regulated

**SECTION 15: REGULATORY INFORMATION**

**TSCA and DSL Status**

All components are listed in the TSCA and DSL inventories.

**SARA 311/312 Reporting Categories**

None

**SARA 313 Reportable Ingredients**

None

**SECTION 16: OTHER INFORMATION**

**Department Issuing SDS**      Health and Safety

**Disclaimer**

This information relates to the specific material designated and may not be valid for such material used in combination with other materials or in any process. This information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.



# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 05.07.2015

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## Polychem PC36

### SECTION 1 : Identification of the substance/mixture and of the supplier

**1.1 Product name :**

Polychem PC36

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:**

PC 36

**1.2 Recommended uses of the product and restrictions on use:** Water Soluble Cleaner Concentrate

**1.3 Manufacturer Details:**

US Polychem Corp.  
584 Chestnut Ridge Road-  
Chestnut Ridge, NY 10977  
845-356-5530 (Information)

**1.4 Emergency telephone number**

Chemtrec 800-424-9300

### SECTION 2 : Hazards identification

**2.1 Classification of the substance or mixture:**



**Irritant**

Skin irritation, category 2  
Eye irritation, category 2A

Skin Irritant2

Eye Irritant2

**Signal word:** Warning

**Hazard statements:**

Causes skin irritation

Causes serious eye irritation

**Precautionary statements:**

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

Read label before use

Wash skin thoroughly after handling

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

IF ON SKIN: Wash with soap and water

Specific treatment (see supplemental first aid instructions on this label)

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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

**Other Non-GHS Classification:**

WHMIS

D2B



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according to 29CFR1910/1200 and GHS Rev. 3

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Polychem PC36

## NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3 : Composition/information on ingredients

#### Ingredients:

CAS 111-76-2	Ethylene Glycol Monobutyl Ether	15-25%
CAS 68439-46-3	Alcohols, C9-C11, Ethoxylated	1 %

Percentages are by weight

### SECTION 4 : First aid measures

#### 4.1 Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position.

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned. Keep eyelids open while rinsing.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

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

Irritation. Headache. Nausea. Shortness of breath.;

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

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

### SECTION 5 : Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents:**

#### 5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3 Advice for firefighters:

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according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 05.07.2015

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## Polychem PC36

**Protective equipment:** Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus.

**Additional information (precautions):** Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

### SECTION 6 : Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### 6.2 Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

#### 6.2 Methods and material for containment and cleaning up:

Always obey local regulations. Containerize for disposal. Refer to Section 13. Wear protective eyewear, gloves, and clothing. Refer to Section 8. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

#### Reference to other sections:

### SECTION 7 : Handling and storage

#### 7.1 Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

### SECTION 8 : Exposure controls/personal protection



#### Control Parameters:

111-76-2, Ethylene Glycol Monobutyl Ether, TWA 20.000000 ppm USA.  
ACGIH Threshold Limit Values (TLV)  
111-76-2, Ethylene Glycol Monobutyl Ether, TWA 5.000000 ppm NIOSH  
Recommended Exposure Limits

#### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

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<b>Protection of skin:</b>	Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.
<b>Eye protection:</b>	Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.
<b>General hygienic measures:</b>	Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

#### SECTION 9 : Physical and chemical properties

<b>Appearance (physical)</b>	Clear, colorless liquid	<b>Explosion limit lower:</b>	Not Determined
		<b>Explosion limit upper:</b>	Not Determined
<b>Odor:</b>	Mild	<b>Vapor pressure:</b>	Not Determined
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	Not Determined
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	0.97 g/cm <sup>3</sup>
<b>Melting/Freezing point:</b>	Not determined	<b>Solubilities:</b>	Material is water soluble.
<b>Boiling point/Boiling range:</b>	216F	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	177F	<b>Auto/Self-ignition temperature:</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid,gaseous)</b>	Not Determined	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> Not Determined			

#### SECTION 10 : Stability and reactivity

- 10.1 **Reactivity:** Nonreactive under normal conditions.
- 10.2 **Chemical stability:** Stable under normal conditions.
- 10.3 **Possible hazardous reactions:** None under normal processing.
- 10.4 **Conditions to avoid:** Incompatible materials.
- 10.5 **Incompatible materials:**
- 10.6 **Hazardous decomposition products:**

#### SECTION 11 : Toxicological information

<b>Acute Toxicity:</b>		
<b>Oral:</b>	111-76-2	LD50 Rat - 470 mg/kg
<b>Inhalation:</b>	111-76-2	LC50 Rat - 4 h - 450 ppm

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**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

**Sensitization:** No additional information.

**Single Target Organ (STOT):** No additional information.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12 : Ecological information

#### 12.1 Ecotoxicity

**Toxicity to fish LC50 - other fish - 220 mg/l - 96 h:** 111-76-2

**Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h:** 111-76-2

**12.2 Persistence and degradability:** No information available.

**12.3 Bioaccumulative potential:** No information available.

**12.4 Mobility in soil:** No information available.

**12.5 Other adverse effects:** No information available.

### SECTION 13 : Disposal considerations

#### 13.1 Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

### SECTION 14 : Transport information

Exempt Combustible Liquid via ground transportation per 49 CFR 173.150(f)

#### 14.1 UN-Number

1993

#### 14.2 UN proper shipping name

Combustible Liquid, n.o.s. (Ethylene Glycol Monobutyl Ether)

#### 14.3 Transport hazard class(es)

#### 14.4 Packing group:III

#### 14.5 Environmental hazard:

#### 14.6 Transport in bulk:

#### 14.7 Special precautions for user:

### SECTION 15 : Regulatory information

#### 15.1 United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

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Acute, Chronic, Fire

**SARA Section 313 (Specific toxic chemical listings):**

111-76-2 Ethylene Glycol Monobutyl Ether

**RCRA (hazardous waste code):**

None of the ingredients is listed

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

None of the ingredients is listed

**Proposition 65 (California):**

**Chemicals known to cause cancer:**

None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed

**15.2 Canada**

**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients is listed

### SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond

our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:**

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

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TSCA: Toxic Substances Control Act (USA)  
NPRI: National Pollutant Release Inventory (Canada)  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)

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