

**ROCKHARD SCP ULTRA LITE WEIGHT – PART A  
SAFETY DATA SHEET**

Date Prepared: 1/08/16

Date Printed: 9/8/2017

**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**MATERIAL IDENTITY:**  
ROCKHARD SCP Ultra Light Weight - Part A

**TELEPHONE:** 281-797-0457

**COMPANY:**  
SolidCast Polymer Technology  
5422 Chapel Brook Drive  
Houston, TX 77069

**EMERGENCY TELEPHONE:**  
1-800-633-8253 (Transportation only)  
PERS (#8385)

**2. HAZARDS IDENTIFICATION**

**GENERAL HAZARD STATEMENT**

Exposure to this material may induce an allergic or sensitization reaction and aggravate systemic disease. Chronic effects of exposures may cause liver and kidney damage.

**EMERGENCY OVERVIEW**

**OSHA HAZARDOUS**

Target Organ Effect: Skin Sensitizer, Irritant

Target Organs: Kidney, Liver, Heart

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**

Health		Environmental		Physical
Acute Toxicity, Dermal	Category 5 Category 2	Not Classified		Not Classified
Skin Irritation	Category 2A			
Eye Irritation	Category 1			
Skin Sensitization				

Pictogram:



**Signal Word**

Warning

Hazard Statements	Precautionary Statements
H303 + H313 May be harmful if swallowed or in contact with skin	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
H315 Causes Skin Irritation	P264 Wash skin thoroughly after handling.
H317 May cause allergic skin reaction	P280 Wear protective gloves/protective clothing/eye protection/face protection.
H319 Causes serious eye irritation	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P501 Dispose of contents/container to an approved waste disposal plant.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Chemical Characterization:

<b>Ingredient(s)</b>	<b>CAS Number</b>	<b>% (by weight)</b>
Vinyl Ester Polymer Compound	Proprietary	100

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**4. FIRST AID MEASURES**

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**Eyes Contact:** Can cause severe eye irritation. Symptoms include severe irritation, redness, tearing, blurred vision and corneal damage. Immediately flush eyes gently with large amounts of water for at least 15 minutes. Retract eyelids often. Get prompt medical attention.

**Skin Contact:** May be absorbed through the skin in harmful amounts. May cause skin sensitization, and allergic reaction which become evident upon re-exposure. Remove contaminated clothing. Wash the exposed area with mild soap and water. Flush w/lukewarm water for 15 minutes. Launder contaminated clothing before re-use. Seek medical attention if ill effect or irritation develops.

**Ingestion:** Can cause gastrointestinal irritation with nausea, vomiting and diarrhea. Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep person warm, quiet and get medical attention.

**Inhalation:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention immediately. This product contains talc which is currently listed by OSHA as a respirable dust hazard with an exposure limit of 2 mg/m<sup>3</sup>.

**Advice to physicians:** Treat symptomatically and supportively.

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**5. FIRE FIGHTING MEASURES**

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**Conditions of Flammability**

Not flammable or combustible.

Fire or excessive heat may result in rupture of container due to bulk polymerization. Heating may cause explosion.

**Suitable extinguishing media**

Dry Chemical, CO<sub>2</sub>, alcohol resistant foam, water spray/water fog for cooling. USE WATER WITH CAUTION. Water may be ineffective in fighting the fire.

**Hazardous Decomposition Products**

Acrid smoke-fumes, carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

**Fire Fighting Instructions**

Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent and protective clothing. See Section 10 for decomposition products. Fight fire from safe distance/protected location. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions**

Spilled or released material may polymerize and release heat/gases. Eliminate all ignition sources and ventilate area. Wear protective equipment during clean up (see Section 8).

**Environmental Precautions**

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Prevent runoff from entering drains, sewers, or streams. Dispose/report per regulatory requirements.

**Methods and Materials for Containment and Cleaning Up**

Spilled or released material may polymerize and release heat/gases. Eliminate all ignition sources and ventilate area. Do Not let product enter sewers. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean up. Dispose/report per regulatory requirements.

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**7. HANDLING AND STORAGE**

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**Precautions for Safe Handling**

Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check Organoclay

**Conditions for Safe Storage**

Do not store at below 32F - inhibitor can separate as a solid. If frozen, warm and remix material gently (<90F). Prevent moisture contact. Store in tightly closed, properly vented containers away from: heat, sparks, open flame, strong oxidizers, radiation and other initiators. Prevent contamination by foreign materials. Use only non-sparking tools and limit storage time.

**Decontamination Procedures**

Follow standard plant procedures or supervisor's instructions for decontamination operations.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**EXPOSURE LIMITS**

HAZARDOUS COMPONENT	PEL	STEL	TLV	Other
Vinyl Ester Polymer Compound	NE	NE	NE	NE

**Engineering Controls**

Local exhaust ventilation may be required in addition to general room ventilation.

**Respiratory Protections**

Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended. If cured material is cut or sanded a NIOSH/MSHA particulate respirator is recommended.

**Eye Protection**

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

**Skin and Body Protection**

When skin contact is possible, protective clothing including apron, sleeves, boots head and face protection should be worn. Wear chemical resistant gloves such as neoprene, rubber, latex, etc.

**Other hygienic practices**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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**Other work practices**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	
Form	Viscous paste
Color	Gray
pH	N/DA
Melting/Freezing Temperature	< - 60 C (-76 F)
Boiling Point	67 C/ 153 F
Flash Point	96 C/ 205 F
Ignition Temperature	N/DA
Autoignition Temperature	N/DA
Lower explosive limit N/AP	Upper explosive limit N/AP
Vapor Pressure	0.1 mm Hg
Vapor Density (air=1)	>1
Solubility	N/DA
Viscosity, Kinematic	AP varies with product mix cps at 25 C/77F
Percent Volatiles	Negligible
Evaporation Rate (Bac=1)	N/DA
Odor	Mild to sweet acrylic odor
Odor threshold	N/DA

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**10. STABILITY AND REACTIVITY**

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**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

No data available.

**Conditions to Avoid**

High temperatures, localized heat sources (i.e., drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

**Materials to Avoid**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers, strong oxidizers, acids, bases.

**Hazardous Decomposition Products**

Acrid smoke-fumes, carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

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**11. TOXICOLOGY INFORMATION**

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**Acute Toxicity** Based on HEMA

Oral LD50	Rat	>5,000 mg/kg.
Dermal LD50	Rabbit	>3,000 mg/kg
Inhalation LC50	Rat	6 h > 0.55 mg/l

**Skin Corrosion/Irritation**

Skin	Rabbit	Irritating to skin 24 h
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**15. REGULATORY INFORMATION**

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**TSCA INVENTORY STATUS**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

**OSHA HAZARDS**

Target Organ Effect, Skin Sensitizer, Skin Irritant, Eye Irritant

<b>HMIS Classification</b>		<b>NFPA Rating</b>
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	0	0

**SARA TITLE III: Section 311/312 Hazard Class**

Acute Health Hazard, Chronic Health Hazard

**SARA TITLE III: Section 313 (40CFR370)**

This product does not contain a chemical which is listed in Section 313 at or above the de minimus concentrations.

**CERCLA Information (40CFR302.4)**

This material contains no hazardous or extremely hazardous substances as defined by CERCLA or SARA Title III, and release is therefore not reportable.

This material contains an inhibitor (HQ, MEHQ, etc.). The type and amount meet product specifications. Contact a company representative for exact concentrations and details on inhibitor level maintenance.

**California Proposition 65 Information:**

This product does not contain substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

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**16. OTHER INFORMATION**

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Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**FOR INDUSTRIAL USE ONLY**

# ROCKHARD SCP Ultra Light Weight - Part B

## SAFETY DATA SHEET

### PRODUCT AND COMPANY IDENTIFICATION

#### Company

SolidCast Polymer Technology  
5422 Chapel Brook Drive  
Houston, TX 77069

Telephone Number: (281) 797-0457

#### Emergency Information

Transportation: PERS (#8385)  
1-800-633-8253

Other 24 Hour: (281) 797-0457

#### Product Information

Product name: ROCKHARD SCP Ultra Light - Part B  
Synonyms: Not available  
Molecular formula: Complex Mixture  
Chemical family: Organic peroxide - hydroperoxides  
Product use: Free radical polymerization initiator

### 1. HAZARDS IDENTIFICATION

#### Emergency Overview

Color: colorless to light yellow  
Physical state: liquid  
Odor: aromatic, pungent

#### \*Classification of the substance or mixture:

Flammable liquid., Category 4, H227  
Organic peroxides, Type F, H242  
Oral: Acute toxicity, Category 4, H302  
Inhalation: Acute toxicity, Category 2, H330  
Dermal: Acute toxicity, Category 4, H312  
Skin corrosion, Category 1B, H314  
Serious eye damage, Category 1, H318  
Carcinogenicity, Category 2, H351  
Specific target organ toxicity - single exposure, Category 3, H335  
Specific target organ toxicity - repeated exposure, Category 2, H373  
Aspiration hazard, Category 1, H304  
Chronic aquatic toxicity, Category 2, H411

\*For the full text of the H-Statements mentioned in this Section, see Section 16.

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### GHS-Labeling

Hazard pictograms:



Signal word:

**Danger**

### Hazard statements:

- H227 : Combustible liquid.
- H242 : Heating may cause a fire.
- H302 + H312 : Harmful if swallowed or in contact with skin
- H304 : May be fatal if swallowed and enters airways.
- H314 : Causes severe skin burns and eye damage.
- H330 : Fatal if inhaled.
- H335 : May cause respiratory irritation.
- H351 : Suspected of causing cancer.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- H411 : Toxic to aquatic life with long lasting effects.

### Supplemental Hazard Statements:

Specific target organ toxicity - repeated exposure: upper respiratory tract. Organic peroxide. Hazardous decomposition may occur.



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### **Precautionary statements:**

#### **Prevention:**

P201 : Obtain special instructions before use.  
P202 : Do not handle until all safety precautions have been read and understood.  
P210 : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P220 : Keep/Store away from clothing/ combustible materials.  
P234 : Keep only in original container.  
P260 : Do not breathe gas/mist/vapours/spray.  
P264 : Wash skin thoroughly after handling.  
P270 : Do not eat, drink or smoke when using this product.  
P271 : Use only outdoors or in a well-ventilated area.  
P273 : Avoid release to the environment.  
P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P281 : Use personal protective equipment as required.  
P284 : Wear respiratory protection.

#### **Response:**

P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P301 + P330 + P331 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 : IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 : IF exposed or concerned: Get medical advice/ attention.  
P310 : Immediately call a POISON CENTER or doctor/ physician.  
P363 : Wash contaminated clothing before reuse.  
P370 + P378 : In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391 : Collect spillage.

#### **Storage:**

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.  
P405 : Store locked up.  
P410 : Protect from sunlight.  
P411 + P235 : Maximum storage temperature is specified on label and in section 7 of SDS. Keep cool.  
P420 : Store away from other materials.

#### **Disposal:**

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

### **Supplemental information:**

#### **Potential Health Effects:**

Prolonged or repeated skin contact may cause defatting resulting in drying, redness and rash. If swallowed, may cause severe irritation and injury to the mouth, throat and digestive tract.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9	>= 80 - <= 84 %	H227, H302, H242, H312 H330, H318, H411, , H373
Benzene, (1-methylethyl)-	98-82-8	>= 10 - < 25%	H226, H304, H335, H411, H351
Benzenemethanol, .alpha.,.alpha.- dimethyl-	617-94-7	>= 25 - < 10 %	H302, H315, H319

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

**General advice:**

POISON! Call a Poison Control Center immediately. Get medical attention immediately.

**Inhalation:**

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Skin:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

**Ingestion:**

If swallowed, DO NOT induce vomiting. If vomiting occurs, have person lean forward. Never give anything by mouth to an unconscious person. Rinse mouth.

### 5. FIREFIGHTING MEASURES

**Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Dry chemical

**Extinguishing media (unsuitable):**

Water jet.

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

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Fight fire with large amounts of water from a safe distance.  
Cool closed containers exposed to fire with water spray.  
Closed containers of this material may explode when subjected to heat from surrounding fire.  
After a fire, wait until the material has cooled to room temperature before initiating clean-up activities.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Fire fighting equipment should be thoroughly decontaminated after use.

### **Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides  
Hazardous organic compounds

Contact with materials to avoid or exposure to temperatures exceeding the SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may autoignite.  
Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, and other flames and ignition sources at locations distant from material handling point.

## **6. ACCIDENTAL RELEASE MEASURES**

### **In case of spill or leak:**

Prevent further leakage or spillage if you can do so without risk. Evacuate area of all unnecessary personnel. Ventilate the area. Eliminate all ignition sources. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as sodium bicarbonate, sodium carbonate, calcium carbonate, clean sand or non-acidic clay and then wet down (dampen) the mixture with water. DO NOT USE peat moss. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down further with water. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

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### 7. HANDLING AND STORAGE

#### Handling

##### **General information on handling:**

Contact with materials to avoid or exposure to temperatures exceeding the SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may autoignite.

Do not taste or swallow.

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

Do not breathe vapor or mist.

Keep away from heat, sparks and flames.

No smoking.

Use only with adequate ventilation.

Wash thoroughly after handling.

Prevent product contamination.

Keep container tightly closed and away from combustible materials.

Keep only in the original container.

Check that all equipment is properly grounded and installed to satisfy electrical classification requirements.

Container hazardous when empty.

Follow label warnings even after container is emptied.

RESIDUAL VAPORS MAY EXPLODE ON IGNITION.

DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR THIS CONTAINER.

Do not reuse container as it may retain hazardous product residue.

Improper disposal or reuse of this container may be dangerous and/or illegal.

#### Storage

##### **General information on storage conditions:**

Store in tightly closed container. Keep container closed when not in use. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Outside or detached storage is preferred. Store in well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly grounded and installed to satisfy electrical classification requirements. Store out of direct sunlight in a cool well-ventilated place. Store in original container. Store away from combustibles and materials to avoid. Refer also to National Fire Protection Association (NFPA) Code 400, Hazardous Materials Code. Static electricity may accumulate when transferring material. All metal and groundable storage containers, including but not limited to drums, cylinders, Returnable Intermodal Bulk Containers (RIBCs) and Class C Flexible Intermodal Bulk Containers (FIBCs) must be bonded and grounded during filling and emptying operations. Observe all federal, state and local regulations and National Fire Protection Association (NFPA) Codes which pertain to the specific local conditions of storage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

##### **Storage stability – Remarks:**

Follow the recommended storage temperatures provided in this Section in order to maintain stability and oxygen content.

##### **Storage incompatibility – General:**

Store separate from:

Strong acids

Strong bases

Strong oxidizing agents

Reducing agents

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Accelerators

Friedel - Crafts reaction catalyst

transition metal salts

metal ions

Sulphur compounds

Ketones

Brass

Copper

Copper alloys

Iron

Aluminum and aluminum alloys

For all Organic Peroxides, compatible materials of contact are stainless steel 304 or 316 (preferred), high-density polyethylene (HDPE), polytetrafluoroethylene or glass linings.

**Temperature tolerance – Do not store above:**

86 °F (30 °C)

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Airborne Exposure Guidelines:

#### **Hydroperoxide, 1-methyl-1-phenylethyl (80-15-9)**

US. OARS. WEELs Workplace Environmental Exposure Level Guide

Time weighted average 1 ppm (6 mg/m<sup>3</sup>)

Skin designation

**Remarks:** Can be absorbed through the skin.

**Remarks:** Listed

#### **Benzene, (1-methylethyl)- (98-82-8)**

US. ACGIH Threshold Limit Values

Time weighted average 50 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 50 ppm (245 mg/m<sup>3</sup>)

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Skin designation

**Remarks:**

Can be absorbed through the skin.

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

**Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Respiratory protection:**

Do not breathe vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

**Eye protection:**

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	colorless to light yellow
<b>Physical state:</b>	liquid
<b>Odor:</b>	aromatic, pungent
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	174 °F (79 °C) (Method: closed cup)
<b>Auto-ignition temperature:</b>	No data available
<b>Lower flammable limit (LFL):</b>	0.9 %(V)
<b>Upper flammable limit (UFL):</b>	6.5 %(V)
<b>pH:</b>	5 - 6
<b>Density:</b>	1.0619 g/cm <sup>3</sup> (68 °F (20 °C))
<b>Specific Gravity (Relative density):</b>	1.0619 (68 °F (20 °C))Water=1 (liquid)
<b>Vapor pressure:</b>	0.033 mmHg (77 °F (25 °C))
<b>Relative vapor density:</b>	5.4 (68 °F (20 °C))
<b>Vapor density:</b>	No data available
<b>Boiling point/boiling range:</b>	127 °F (53 °C) 0.1 mmHg
<b>Melting point/range:</b>	16 °F (-9 °C)
<b>Evaporation rate:</b>	No data available
<b>Solubility in water:</b>	13.9 g/l 77 °F (25 °C)
<b>Viscosity, dynamic:</b>	12.5 mPa.s 68 °F (20 °C)
<b>Oil/water partition coefficient:</b>	No data available
<b>Self-Accelerating Decomposition Temperature (SADT):</b>	180 °F (82 °C) (Method: OPPSD (USA))
<b>Thermal decomposition</b>	No data available
<b>Active oxygen content:</b>	8.4 - 8.82 %
<b>Flammability:</b>	See GHS Classification in Section 2

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### 10. STABILITY AND REACTIVITY

**Stability:**

This material is chemically unstable and should only be handled under specified conditions. See HANDLING AND STORAGE section of this MSDS for specified conditions.

**Hazardous reactions:**

Hazardous polymerization does not occur.

**Materials to avoid:**

Strong acids  
Strong bases  
Strong oxidizing agents  
Reducing agents  
Accelerators  
Friedel - Crafts reaction catalyst  
transition metal salts  
metal ions  
Sulphur compounds  
Ketones  
Brass  
Copper  
Copper alloys  
Iron  
Aluminium

For all Organic Peroxides, compatible materials of contact are stainless steel 304 or 316 (preferred), high-density polyethylene (HDPE), polytetrafluoroethylene or glass linings.

**Conditions / hazards to avoid:**

See HANDLING AND STORAGE section of this MSDS for specified conditions. SADT - Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generate a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio to heat transfer area to volume of product.

**Hazardous decomposition products:**

Temperatures at or above SADT can result in the release of hazardous decomposition products which are flammable and may autoignite.

Thermal decomposition giving flammable and toxic products:

Carbon oxides  
Hazardous organic compounds

### 11. TOXICOLOGICAL INFORMATION



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Data on this material and/or its components are summarized below.

### Data for ArmorRock Grout Part B

#### Acute toxicity

##### **Oral:**

Acute toxicity estimate 446.59 mg/kg.

##### **Dermal:**

Acute toxicity estimate 1,755 mg/kg.

##### **Inhalation:**

4 h Acute toxicity estimate 1.56 mg/l. (vapour)

### Data for Hydroperoxide, 1-methyl-1-phenylethyl (80-15-9)

#### Acute toxicity

##### **Skin Irritation:**

Causes severe skin burns. (Rabbit) (4 h)

Causes mild skin irritation. (Rabbit) (4 h) (7 %) (dilute solutions)

##### **Eye Irritation:**

Causes serious eye damage. (Rabbit) Irritation Index: 65/110. (10 %)

Causes mild eye irritation. (Rabbit) Irritation Index: 6/110. (1 %)

#### Repeated dose toxicity

Subchronic inhalation administration to Rat / affected organ(s): upper respiratory tract / signs: breathing difficulties, irritation / Local irritation

Chronic dermal administration to Mouse / affected organ(s): site of contact / signs: hair loss, irritation

#### Carcinogenicity

Chronic dermal administration to Mouse / signs: No increase in tumor incidence was reported.

#### Genotoxicity

##### **Assessment in Vitro:**

Both positive and negative responses were observed in various standard tests for genetic changes.

#### Genotoxicity

##### **Assessment in Vivo:**

Genetic changes were observed in laboratory tests using: fruit flies

### Data for Benzene, (1-methylethyl)- (98-82-8)

#### Acute toxicity

##### **Skin Irritation:**

Causes mild skin irritation. (Rabbit) Irritation Index: 3.7/8.0. (24 h)

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### **Eye Irritation:**

Not irritating. (Rabbit) Irritation Index: 7.6/110.

### **Skin Sensitization:**

Not a sensitizer. Guinea pig maximization test. No skin allergy or irritation was observed.

### **Repeated dose toxicity**

Chronic oral administration to Rat / affected organ(s): kidney / signs: increased organ weight

Subchronic inhalation administration to Rat / affected organ(s): blood, kidney, liver / signs: changes in organ structure or function / (vapor)

Subchronic inhalation administration to Mouse / affected organ(s): liver / signs: changes in organ structure or function / (vapor)

Chronic inhalation administration to guinea pig, dog, monkey / No adverse effects reported. (vapor)

### **Carcinogenicity**

Chronic inhalation administration to rat and mouse / affected organ(s): lung, upper respiratory tract, kidney / signs: Increase in tumor incidence was reported.

Classified by the International Agency for Research on Cancer as: Group 2B: Possibly carcinogenic to humans. Listed by the National Toxicology Program as: Reasonably anticipated to be a human carcinogen.

### **Genotoxicity**

#### **Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells

#### **Genotoxicity**

#### **Assessment in Vivo:**

Generally, no genetic changes were observed in laboratory studies using: rats, mice

#### **Developmental toxicity**

Exposure during pregnancy. inhalation (rat, rabbit) / No birth defects were observed.

#### **Reproductive effects**

Repeated administration. inhalation (Rat) / No toxicity to reproduction.

#### **Other information**

Aspiration hazard

#### **Aspiration hazard**

May be harmful if swallowed and enters airways.

### **Data for Benzenemethanol, .alpha.,.alpha.-dimethyl- (617-94-7)**

#### **Acute toxicity**

#### **Skin Irritation:**

Causes skin irritation. (Rabbit) (24 h) (occluded exposure)

#### **Eye Irritation:**

Causes serious eye irritation. (Rabbit)

#### **Repeated dose toxicity**

Repeated oral administration to Rat / No adverse systemic effects reported.

Repeated administration to Guinea pig / affected organ(s): eye / signs: irritation / (reversible)

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### 12. ECOLOGICAL INFORMATION

#### Chemical Fate and Pathway

Data on this material and/or its components are summarized below.

#### Data for Hydroperoxide, 1-methyl-1-phenylethyl (80-15-9)

##### **Biodegradation:**

Not readily biodegradable. (28 d) biodegradation < 20 %

##### **Octanol Water Partition Coefficient:**

log Pow = 1.6

##### **Photodegradation:**

Air reaction with OH radicals Half-life direct photolysis: 0.25 d

##### **Mobility and Distribution in the Environment:**

It is slightly adsorptive in soil and sediment. / Log Koc = 1.4

#### Data for Benzene, (1-methylethyl)- (98-82-8)

##### **Biodegradation:**

Biodegradable. (28 d) biodegradation > 60 %

##### **Biological Oxygen Demand:**

20.0 d BOD = 70 % ThOD (predominantly domestic sewage)

##### **Octanol Water Partition Coefficient:**

log Pow = 3.55

#### Ecotoxicology

Data on this material and/or its components are summarized below.

#### Data for Hydroperoxide, 1-methyl-1-phenylethyl (80-15-9)

##### **Aquatic toxicity data:**

Harmful. *Leuciscus idus* 48 h LC50 = 14 - 17 mg/l

Toxic. *Oncorhynchus mykiss* 96 h LC50 = 3.9 mg/l

##### **Aquatic invertebrates:**

Harmful. *Daphnia magna* (Water flea) 48 h EC50 = 18 mg/l

##### **Algae:**

Toxic. *Scenedesmus subspicatus* 72 h EC50 (biomass) = 1.6 mg/l

Toxic. *Scenedesmus subspicatus* 72 h EC50 (growth rate) = 3.1 mg/l

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### Data for Benzene, (1-methylethyl)- (98-82-8)

#### Aquatic toxicity data:

Toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 4.8 mg/l

Toxic. Cyprinodon variegatus (sheepshead minnow) 96 h LC50 = 4.7 mg/l

#### Aquatic invertebrates:

Toxic. Daphnia magna (Water flea) 48 h EC(l)50 = 2.14 mg/l

#### Algae:

Toxic. Desmodesmus subspicatus (green algae) 72 h ErC50 = 2.01 - 3.86 mg/l

#### Microorganisms:

Respiration inhibition / Activated sludge 3 h EC0 > 2,000 mg/l

#### Chronic toxicity to aquatic invertebrates:

Toxic. Daphnia magna (Water flea) 21 d NOEC (reproduction) = 0.35 mg/l

#### Chronic toxicity to aquatic plants:

Practically nontoxic. Desmodesmus subspicatus (green algae) 72 h NOEC (growth rate) = 1.49 mg/l

### Data for Benzenemethanol, .alpha.,.alpha.-dimethyl- (617-94-7)

#### Aquatic toxicity data:

Oncorhynchus mykiss (rainbow trout), Bluegill sunfish, Sea lamprey 24 h NOEC = 5 mg/l

## 13. DISPOSAL CONSIDERATIONS

#### Waste disposal:

Dilution followed by incineration is the preferred method. Dilution ratio of 10:1 in a clean, compatible, combustible solvent (i.e., Fuel Oil #2, mineral oil) will reduce reactivity hazard during incineration and transportation. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

Take appropriate measures to prevent release to the environment.

## 14. TRANSPORT INFORMATION

UN Number	:	3109
Proper shipping name	:	Organic peroxide type F, liquid
Technical name	:	(Cumyl hydroperoxide, <=90%)
Class	:	5.2
Subsidiary hazard class	:	(8)
Packaging group	:	II
Marine pollutant	:	yes
Reportable quantity	:	10 lbs (hydroperoxide, 1-methyl-1-phenylethyl)

### US Department of Transportation (DOT)

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### International Maritime Dangerous Goods Code (IMDG)

UN Number : 3109  
Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID  
Technical name : (hydroperoxide, 1-methyl-1-phenylethyl, <=90%)  
Class : 5.2  
Marine pollutant : yes  
Flash point : 174 °F (79 °C)

### 15. REGULATORY INFORMATION

#### Chemical Inventory Status

EU. EINECS	EINECS	Conforms to
United States TSCA Inventory	TSCA	The components of this product are all on the TSCA Inventory.
Canadian Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL.
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	Conforms to
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	Conforms to
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	Conforms to
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	Conforms to
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	Conforms to
Australia Inventory of Chemical Substances (AICS)	AICS	Conforms to

#### United States – Federal Regulations

##### **SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

##### **SARA Title III - Section 311/312 Hazard Categories:**

Acute Health Hazard, Chronic Health Hazard, Fire Hazard, Reactivity Hazard

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**SARA Title III – Section 313 Toxic Chemicals:**

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>De minimis concentration</u>	<u>Reportable threshold:</u>
Benzene, (1-methylethyl)-	98-82-8	1.0 %	25000 lbs (Manufacturing and processing) 10000 lbs (Otherwise used (non-manufacturing/processing))
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9	1.0 %	10000 lbs (Otherwise used (non-manufacturing/processing)) 25000 lbs (Manufacturing and processing)

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Reportable quantity</u>
Benzene, (1-methylethyl)-	98-82-8	5000 lbs
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9	10 lbs

**United States – State Regulations**

**New Jersey Right to Know**

<u>Chemical Name</u>	<u>CAS-No.</u>
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9
Benzene, (1-methylethyl)-	98-82-8

**New Jersey Right to Know – Special Health Hazard Substance(s)**

<u>Chemical Name</u>	<u>CAS-No.</u>
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9
Benzene, (1-methylethyl)-	98-82-8

**Pennsylvania Right to Know**

<u>Chemical Name</u>	<u>CAS-No.</u>
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9
Benzene, (1-methylethyl)-	98-82-8
Benzenemethanol, .alpha.,.alpha.-dimethyl-	617-94-7

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### Pennsylvania Right to Know – Environmentally Hazardous Substance(s)

<u>Chemical Name</u>	<u>CAS-No.</u>
Hydroperoxide, 1-methyl-1-phenylethyl	80-15-9
Benzene, (1-methylethyl)-	98-82-8

### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

<u>Chemical Name</u>	<u>CAS-No.</u>
Benzene, (1-methylethyl)-	98-82-8

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

### Miscellaneous:

Other information: Refer to National Fire Protection Association (NFPA) Codes 30, 70, 77, and 497 and OSHA 29 CFR 1910.106, for safe handling.

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