

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	Not Classified		Not Classified
Skin Irritation	Category 2			
Eye Irritation	Category 2A			
Skin Sensitization	Category 1			

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

Chemical Characterization:

Ingredient(s)	CAS Number	% (by weight)
Vinyl Ester Polymer Compound	Proprietary	100

4. FIRST AID MEASURES

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/m³.

Advice to physicians: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

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, CO₂, 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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGY INFORMATION

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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Serious Eye Damage/Eye Irritation

Eyes

Rabbit

Irritating to eyes

Respiratory or Skin Sensitization

Guinea pig, various test systems

Sensitizing

Cases of sensitization also observed in humans

Mutagenicity

Positive as well as negative results in in-vitro mutagenicity/genotoxicity tests.

No experimental indication of genotoxicity in vivo available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. ECOLOGICAL INFORMATION

Aquatic Ecotoxicity

Based on Trimethylolpropane triacrylate

LC50 1.47 mg/l

Fish

Static Test 96 hours

LC50 19.9 mg/l

Daphnia

Static Test 48 hours

EC50 4.86 mg/l

Algae

Static Test 96 hours

Bacteria Toxicity

HEMA

EC50 >3,000 mg/l

Psuedomonas fluorescens

16 hours

Biodegradability

Readily degradable, OECD 301 B, Bottle Test, 28 d

84%

Mobility in soil

Do not allow to enter soil, waterways or wastewater.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

14. TRANSPORTATION INFORMATION

DOT (US)

Non-Regulated

IMDG

Non-Regulated

IATA

Non-Regulated

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15. REGULATORY INFORMATION

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

HMIS Classification		NFPA Rating
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.

16. OTHER INFORMATION

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

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SAFETY DATA SHEET

AKPEROX CMP50

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name AKPEROX CMP50

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier AKPA KİMYA AMBALAJ SANAYİ VE TİCARET ANONİM ŞİRKETİ
Yenibosna Merkez Mah. Ladin Sok.
No:36/70 Kat:12 34197 Townofis Bahçelievler, İstanbul, TÜRKİYE
Web: www.akpakimya.com
TEL: +90 212 580 55 59
FAX: +90 212 580 55 21
E-mail: info@akpakimya.com
Contact person Export Department - export@akpakimya.com

1.4. Emergency telephone number

Emergency telephone AKPA Kimya : +90 212 580 55 59

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Org. Perox. F - H242
Health hazards Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 3 - H331; Skin Corr. 1B - H314; STOT RE 2 - H373
Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



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Signal Word	Danger	
Hazard statements	H242	Heating may cause a fire.
	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H331	Toxic if inhaled.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.- No smoking.
	P220	Keep away from acids, alkalis, heavy metal compounds, oxidising material, combustible materials.
	P234	Keep only in original container.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P411+P235	Store at temperature not exceeding 5°C / 30°C. Keep cool.
	P501	Dispose of contents/container in accordance with national regulations.

Commission Regulation (EU) No 2015/830 of 28 May 2015.**Contains** α,α -dimethylbenzyl hydroperoxide, Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide**2.3. Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

acetophenone		%1-5	
CAS Number	98-86-2	EC Number	202-707-8
Classification			
Acute Tox. 4	H302		
Eye Irrit. 2	H319		

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Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide		%45-55	
REACH Reg. No: 01-2119514691-43-0007			
CAS Numarası	1338-23-4	EC Numarası	700-954-4
Classification			
Org. Perox. D	H242		
Akut Tok. 4	H302		
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Akut Tox. 4	H332		

α,α-dimethylbenzyl hydroperoxide; cumene hydroperoxide		25-30 %	
CAS Number	80-15-9	EC Number	201-254-7
Classification		Specific concentration limits	
Org. Perox. E	H242	Skin Corr. 1B; H314: C \geq 10 %	
Acute Tox. 3	H331	Eye Irrit. 2; H319: 1 % \leq C < 3 %	
Acute Tox. 4	H302	Skin Irrit. 2; H315: 3 % \leq C < 10 %	
Acute Tox. 4	H312	STOT SE 3; H335: C < 10 %	
Skin Corr. 1B	H314	Eye Dam. 1; H318: 3 % \leq C < 10 %	
STOT RE 2	H373		
Aquatic Chronic 2	H411		

cumene		5-10 %	
CAS Number	98-82-8	EC Number	202-704-5
Classification			
Flam. Liq. 3	H226		
Asp. Tox. 1	H304		
STOT SE 3	H335		
Aquatic Chronic 2	H411		

Butanone		<1%	
CAS Numarası	78-93-3	EC Numarası	201-159-0
Classification			
Flam. Liq. 2	H225		
EUH066			
Eye Irrit. 2	H319		
STOT SE 3	H336		

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Hydrogen Peroxide Solution		<1%	
CAS Numarası	7722-84-1	EC Numarası	231-765-0
Classification			
Ox. Liq. 1	H271		
Acute Tox. 4	H302		
Acute Tox. 4	H332		
Skin Corr. 1A	H314		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information	Move out of dangerous area. Show this Safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Skin contact	It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.

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Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause stomach pain or vomiting. Chemical burns.

Skin contact May cause serious chemical burns to the skin.

Eye contact Cause severe irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic gases may be formed. Vapours may form explosive air mixtures even at room temperature. Containers can burst violently when heated, due to excess pressure build-up.

Hazardous decomposition products

Thermal decomposition or combustion products may contain the following materials: Very toxic or corrosive gases or vapors.

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5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. May cause or intensify fire; oxidiser. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

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Reference to the other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities**Storage precautions**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from other materials. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Store at temperatures between +5°C and +30°C.

7.3. Specific end use(s)**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection**8.1. Control parameters****Occupational exposure limits**

isim	STD	TWA – 8 sa.		STEL – 15 dk.	
Butanone	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)
Cumene	WEL	25 ppm(Sk)	125 mg/m ³ (Sk)	50 ppm(Sk)	250 mg/m ³ (Sk)
Hydrogen peroxide	WEL	1 ppm	1.4 mg/m ³	2 ppm	2.8 mg/m ³
Methyl Ethyl Ketone Peroxide	WEL	--	--	0.2 ppm	1.5 mg/m ³

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8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

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Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear suitable mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14 387 and EN143. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Pale yellow.
Odour	Characteristic.
Melting point	No data available.
Flash point	No data available.
Flammability (solid, gas)	Not applicable
Density	1,05 - 1,11 gr/cm ³ 25°C
Viscosity	No data available.
Solubility	Partially soluble in water.

9.2. Other information

Active Oxygen Content	7,5-8,2%
SADT	60°C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

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Stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	
Possibility of hazardous reactions	Not available.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Strong alkalis. Strong acids. Strong oxides. Strong reducing agents. Heavy metals.
10.6. Hazardous decomposition products	
Hazardous decomposition Products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information	The product is not tested.
Serious eye damage/irritation:	Causes burns.
Skin corrosion/irritation:	Causes severe burns.
Respiratory or skin sensitisation:	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity:	
Genotoxicity - In Vitro - In Vivo	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive Toxicity:	Based on available data the classification criteria are not met.
Reproductive Toxicity – Development	Not available.

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Specific target organ toxicity - single exposure:

STOT - Single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard Based on available data the classification criteria are not met.**Inhalation** Toxic: danger of serious damage to health by prolonged exposure through inhalation.**Ingestion** Irritating. May cause nausea, stomach pain and vomiting.**Skin contact** Strongly irritating. Prolonged contact may cause burns.**Eye contact** May cause severe irritation to eyes. Irritation of eyes and mucous membranes.**Route of entry** Ingestion Inhalation Skin and/or eye contact**Target organs** Respiratory system, lungs**Medical considerations** Skin disorders and allergies.**Toxicological information on ingredients.**

	<u>Cumene hydroperoxide (CAS: 80-15-9)</u>
Acute Toxic Dose 1 – LD 50	382 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	500 mg/kg (dermal - rat)
Acute Toxic Conc. - LC 50	200 ppm/4h (inh - rat)

	<u>Acetophenone (CAS: 98-86-2)</u>
Acute Toxic Dose 1 – LD 50	815 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	16.329 mg/kg (dermal - rat)

	<u>Cumene (CAS: 98-82-8)</u>
Acute Toxic Dose 1 – LD 50	2260 mg/kg (oral - rat)
Acute Toxic Dose 2 – NOEL	>535.8 mg/kg (oral - rat)

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Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide (CAS: 1338-23-4)

Acute Toxic Dose 1 – LD 50	484 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	500 mg/kg (dermal - rat)
Acute Toxic Conc. - LC 50	200 ppm/4h (inh - rat)

BUTANONE (CAS: 78-93-3)

Acute Toxic Dose 1 – LD 50	2737 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	607 mg/kg (ipr- rat)
Acute Toxic Conc. - LC 50	23500 mg/m ³ /8h (inh - rat)

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

	<u>BUTANONE (CAS: 78-93-3)</u>
LC 50, 96 Hrs, Fish	3.22 mg/l
	<u>Cumene (CAS: 98-82-8)</u>
LC 50, 96 Hrs, Fish	4.8 mg/l Oncorhynchus mykiss
EC50, 48 Hrs, Daphnia	2.14 mg/l (OECD 202)
EC50, 72 Hrs, Algae	2.60 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bio accumulative potential

Bio accumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is partly miscible with water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects May be hazardous to aquatic life.

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SECTION 13: Disposal considerations**13.1. Waste treatment methods****General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Containers should be thoroughly emptied before disposal because of the risk of a fire. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

SECTION 14: Transport information**General information**

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID)	3105
UN No. (IMDG)	3105
UN No. (ICAO)	3105
UN No. (ADN)	3105

14.2. UN proper shipping name

Proper Shipping name (ADR/RID) ORGANIC PEROXIDE TYPE D

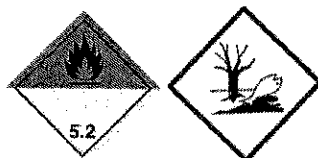
Proper Shipping name (IMDG) ORGANIC PEROXIDE TYPE D

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**Proper Shipping name
(ICAO)** ORGANIC PEROXIDE TYPE D**Proper Shipping name
(ADN)** ORGANIC PEROXIDE TYPE D**14.3. Transport hazard class(es)**

ADR/RID class	5.2
ADR/RID label	5.2
IMDG class	5.2
ICAO class/division	5.2

Transport labels**14.4. Packing group**
Not applicable.**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

Yes.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-J, S-R**Emergency Action Code** 2WE**Hazard Identification Number -
(ADR/RID)****Tunnel restriction code** (D)**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code****Transport in bulk according
to Annex II of MARPOL** Not Applicable.**SECTION 15: Regulatory information**

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Key literature references and sources for data	This SDS is prepared based on the information received from the product owner.
Classification procedures according to Regulation (EC) 1272/2008	Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 3 - H331; Skin Corr. 1B - H314; STOT RE 2 - H373; Aquatic Chronic 2 - H411; Calculation Method. Org. Perox. F - H242; Expert Judgement.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
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Revised By	Simge ARIK lab@akpakimya.com +90 282 361 80 99
Issued Date	13.11.2014
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Revision	2.0
Hazard statements in full	<p>H226 Flammable liquid and vapour.</p> <p>H242 Heating may cause a fire.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways</p> <p>H312 Harmful in contact with skin</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.