



MATERIAL SAFETY DATA SHEET

Product name: **Espercab S840**

MSDS Number: 500000000520

Revision: 1.2 01/30/2001

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Espercab S840

Chemical name : Di-(2-ethylhexyl) peroxydicarbonate

Supplier: Crompton Corporation
One American Lane
Greenwich, CT 06831-2559, USA

Emergency telephone number: Crompton Corporation Emergency Response 903-938-5141
CHEMTREC (24 hours) 800-424-9300

For MSDS, Product Safety, or regulatory inquiries, call: Mr. Anthony Andrews 903-938-5141

Customer Service: 877-948-2660

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
di-(2-ethylhexyl) peroxydicarbonate	16111-62-9	>= 96.0 %
proprietary stabilizer	-	<= 2.0 %
de minimis impurities	-	<= 2.0 %

3. HAZARDS IDENTIFICATION

APPEARANCE

Physical state Liquid
Color Colorless to light yellow

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EMERGENCY OVERVIEW

DANGER! REFRIGERATED STORAGE REQUIRED - STORE BELOW -20°C (-4°F)

REFRIGERATED STORAGE REQUIRED. PROTECT FROM HEAT.

MAY BE HARMFUL OR FATAL IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE IRRITATING OR CORROSIVE TO THE SKIN AND/OR EYES.

POTENTIAL HEALTH EFFECTS

Swallowing

Acute effects

Harmful or fatal if swallowed.

Skin absorption

Acute effects

May cause eye and skin irritation.

Inhalation

Acute effects

May be harmful by inhalation.

Skin contact

Acute effects

May cause allergic skin reaction.

Eye contact

Acute effects

May cause chemical burns of the eye.

POTENTIAL ENVIRONMENTAL EFFECTS

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

4. FIRST AID MEASURES

Swallowing

Obtain medical attention. If patient is fully conscious, rinse mouth with water. Give water to drink. Drink water in small sips. (Diluting effect) Never give anything by mouth to an unconscious person. Vomiting may cause aspiration into the lungs resulting in chemical pneumonia.

Skin

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged,



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obtain medical attention.

Inhalation

Remove to fresh air. If exposure is severe, hospitalize and observe. If breathing has stopped, give artificial respiration.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention immediately. May cause blindness.

Notes to physician

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation, mist. TARGET ORGANS: Eyes, skin, respiratory system.

5. FIRE-FIGHTING MEASURES

Flash point: 69 °C

NFPA CLASSIFICATION

Health: 1	Flammability: 3	Reactivity: 3	Special provisions: -
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Special fire fighting procedures

Evacuate all personnel from danger area. Use water spray to cool fire-exposed containers and structures.

Special protective equipment for firefighters

Body covering protective clothing. Self-contained breathing apparatus.

Extinguishing media

Suitable:

- water fog
- foam
- CO₂
- dry chemical
- dry sand

Unusual fire and explosion hazards

Other harmful gases and vapors may be formed in addition to the major combustion products of carbon dioxide and carbon monoxide. There is a potential for an explosive decomposition in a fire situation. Once ignited, this product will burn vigorously and with acceleration.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with eyes and skin. Avoid contact with liquid and vapors. Provide sufficient ventilation.



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Environmental precautions

Avoid runoff to sewers or waterways. This product has limited solubility in water.

Methods for cleaning up

Stop the leak if it can be done without risk.

Dike to contain spill.

Absorb on inert material such as sand, earth, vermiculite.

Cover by foam or wet with small quantities of water.

Sweep up using non-sparking equipment.

Collect in a suitable container for disposal.

Storage material: Polypropylene, polyethylene

Dispose of waste material in compliance with all federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Keep containers tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wear recommended personal protection equipment. Remove contaminated clothing and wash before reuse. Use spark-proof tools and explosion-proof equipment.

Other precautions

DANGER!

This product must be stored under refrigerated conditions. Loss of refrigeration can lead to uncontrolled exothermic reaction.

Store containers in a well-ventilated area. Open them cautiously, in case they may be under slight pressure. Have good ventilation and suitable protective equipment in areas where containers will be opened.

Keep away from heat, sparks and flame.

Do not expose to direct sunlight.

STORAGE

Storage requirements

Regulated as a temperature controlled Organic Peroxide, Class 5.2, for storage and handling. **DANGER!**

REFRIGERATED STORAGE REQUIRED Store in original containers away from incompatible materials, direct sunlight, flames, and all sources of heat.

Further information on storage

Maximum Storage Temperature: -20 °C (-4 °F). In order to maintain the product's original manufactured assay in long term storage, a lower storage temperature of below -25 °C (-13 °F) is strongly recommended. Shelf Life: (Calculated from half-life data in benzene solution) Estimate 39 months at which 95% of the original manufactured assay remains when stored at or below -25 °C (-13 °F).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

None required in normal use. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area.

Hand protection / protective gloves

Neoprene type gloves.

Eye protection

Wear suitable eye protection.

Faceshield

Monogoggles

Contact lenses should not be worn.

Skin protection

Wear protective clothing.

Apron/boots of neoprene if risk of splashing

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory.

EXPOSURE LIMITS

No exposure limits have been established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state

Liquid

Color

Colorless to light yellow

OTHER PROPERTIES

Boiling point

Decomposition: 0 °C

Melting point

< -25 °C at STP unless specified below.

Specific gravity (H₂O=1)

1.012 at -20 °C

Solubility in water

< 1 g/l



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Flash point 69 °C
Method: Setaflash closed cup ASTM D 3828

Kinematic viscosity No data available.

10. STABILITY AND REACTIVITY

Stability: DANGER! REFRIGERATED STORAGE REQUIRED This product is stable only when stored at, or below, the recommended maximum temperature. (see section 7)

SADT

Value: 20 °C

Remark: 7 # PE Bottle

Stability - Conditions to avoid

Contamination with ANY foreign substance,
Exposure to heat
Loss of temperature control
Protect from direct sunlight.

Incompatible materials

Strong acids.
Reducing agents.
Accelerators
Promoters
Other reactive chemicals

Hazardous combustion products

Carbon monoxide.
Carbon dioxide.
Hydrocarbons.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity:

Test substance: 40% solution in Dimethyl Phthalate
LD50 - Rat
Result: 3,690 mg/kg



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SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rat
Result: No data available.

INHALATION

Test results

Acute toxicity: LC50 - Rat
Result: No data available.

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Result: No data available.

EYE CONTACT

Test results

Eye irritation: Species: Rabbit
Result: No data available.

12. ECOLOGICAL INFORMATION

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

13. DISPOSAL CONSIDERATIONS

US waste

Dispose of waste material in compliance with all federal, state, and local regulations. Hazardous waste identification number D003, characteristic of reactivity (see 40CFR261.23).

14. TRANSPORT INFORMATION



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DOT Classification

Proper shipping name: ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL) PEROXYDICARBONATE, >77-100%)
Class: 5.2
UN ID #: UN3113
Packing group: II

Control Temperature: -20°C (-4°F); Emergency Temperature: -10°C (14°F)

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

This product does not contain any chemical listed in Section 313 at or above de minimis concentrations.

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
di-(2-ethylhexyl) peroxydicarbonate	16111-62-9	
proprietary stabilizer	-	
de minimis impurities	-	

CHEMICAL INVENTORY

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

16. OTHER INFORMATION

HMIS RATING

Health: 1	Flammability: 3	Reactivity: 2	PPI: -
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard



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1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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