



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Di-Cup® R
SYNONYMS: Dicumyl peroxide; DCP
SUPPLIER: GEO Specialty Chemicals, Inc.
50 North Market Street
Gibbstown, NJ 08027
1-800-423-7193 [24 hr]
NFPA Rating: NFPA 432 - Organic Peroxide Classification: Class IV
HMIS Classification: Health: 1 Flammability: 2 Reactivity: 1

EMERGENCY TELEPHONE: CHEMTREC: (800) 424-9300
Outside USA - (703) 527-3887 collect calls accepted

EMERGENCY OVERVIEW:

Pale yellow solid. Reactive: Exposure to temperatures above 131° F (55° C) may cause violent decomposition. Exposure to incompatible materials may cause violent decomposition. Static charges generated by emptying packages in or near flammable vapors may cause flash fires. May form flammable dust-air mixtures. May cause skin, eye and respiratory tract irritation.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient / CAS No.	Weight %	OSHA - PEL's	ACGIH 2002 - TLV's
Dicumyl Peroxide 80-43-3	99+%	None Established.	None Established.

3. HAZARDS IDENTIFICATION

Hazard Information: WARNING! Organic peroxide.
Eye Contact: May cause mild eye irritation.
Inhalation: Dust may cause irritation of the respiratory tract. Prolonged or repeated exposure may cause nasal irritation and nosebleeds persisting after termination of exposure.
Skin Contact: May cause mild skin irritation.
Ingestion: Harmful if swallowed.
Aggravated Conditions: None known.

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

4. FIRST AID MEASURES

Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.
Eye Contact:	Remove contact lenses. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention.
Ingestion:	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. If vomiting should occur spontaneously, keep airway clear.
Notes To Physician:	None

5. FIRE FIGHTING MEASURES

Flash Point (°F/°C)	> 200° F / > 93° C
Flash Point Method:	Setaflash
Autoignition Temp. (°F):	Not Determined
Flammable Limits in Air - Lower (%):	Not Determined
Flammable Limits in Air - Upper (%):	Not Determined
Extinguishing Media:	Water fog, carbon dioxide, foam, dry chemical.
Fire Fighting Procedures:	Cool exposed containers with water spray after extinguishing fire.
Special Exposure Hazards:	Use water spray to cool fire exposed surfaces. Cleanup should not be attempted until all of the product has cooled completely.
Special Protective Equipment:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Procedure for Cleaning/Absorption:	Clean up immediately by sweeping or shoveling material into a properly labeled container for disposal. Wear adequate personal protective clothing and equipment. Do NOT mix with vermiculite, Oil-Dri® absorbent, or any other comparable materials that may be acidic. Recommended absorbents include soda ash, calcium carbonate, clean sand, and clay if known to be inert and non-acidic. Do not return material to original container.
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7. HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: **WARNING!**

Handling:

- Ground all equipment.
- Blanket vessel with inert gas when emptying bags where flammable vapors may be present.
- Ground operator and pour material slowly into conductive, grounded chute.
- For large bags (1000 lbs or greater) a ground cable **MUST** be attached to the bag ground connection.
- Keep container closed when not in use.
- Store in cool dry place.
- Store in well ventilated area.
- Avoid breathing dust; if exposed to high dust concentration, leave area immediately.
- Wear chemical splash goggles, gloves and protective clothing when handling.

Storage:

- Avoid temperatures above 131° F (55° C) which may cause decomposition and the release of flammable gases.
- Avoid conditions that generate dust; product may form flammable dust-air mixtures.
- Avoid emptying package in or near flammable vapors; static charges may cause flash fire.
- Keep away from heat, flame, sparks and other ignition sources.
- Avoid storing product near incompatible materials. See MSDS Section 10.
- Do not store in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Respiratory Protection: When exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.

Gloves: Appropriate chemical resistant gloves should be worn.

Skin Protection: Normal work coveralls.

Eye Protection: Chemical goggles or a face shield if splashing hazard exists.

Other Personal Protection Data: Eyewash fountains and safety showers must be easily accessible.
Avoid contamination of food, beverage or smoking materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	SOLID
Color:	WHITE/LT. YELLOW
Odor:	ACRID
pH:	Not Applicable
Specific Gravity (Water=1):	1.01 (liquid)
Density @ 20° C:	Unknown
Boiling Point (°F/°C):	decomposes before boiling
Melting Point Range (°F/°C):	100° F/ 38° C
Freezing Point/Range (°F/°C):	Not Determined
Vapor Pressure:	0.004 mmHg @ 122° F
Vapor Density (Air=1):	Not Determined
% Volatile by Volume:	negligible @ 68° F
Evaporation Rate (BuAc=1):	slower than butyl acetate
Solubility in Water Description:	negligible @ 68° F
VOCs (lbs/gallon):	None
Viscosity, Dynamic (Centipoise) @ 20° C:	Not Determined
Molecular Weight:	Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling, use and transportation. Temperatures above 131° F (55° C) may lead to exothermic decomposition.
Conditions to Avoid:	Extreme heat. Avoid direct sunlight.
Materials to Avoid:	Acids. Acidic-type materials such as Friedel-Crafts catalysts. Oxidizing agents. Reducing agents.
Hazardous Decomposition Products:	Acetophenone. Alpha, alpha-dimethyl benzyl alcohol. Alpha-methyl styrene. Methane. Ethane. Phenol. Decomposition products may cause eye, skin or respiratory irritation; may be skin sensitizers; and are flammable.
Hazardous Polymerization:	Not anticipated under normal or recommended handling and storage conditions.
Additional Guidelines:	None.

11. TOXICOLOGICAL INFORMATION

PRINCIPAL ROUTES OF EXPOSURE:	Skin, eyes and respiratory tract.
Ingestion:	Harmful if swallowed.
Skin Contact:	May cause mild skin irritation.
Inhalation:	Dust may cause irritation of the respiratory tract. Prolonged or repeated exposure may cause nasal irritation and nosebleeds persisting after termination of exposure.
Eye Contact:	May cause mild eye irritation.

Carcinogenicity Status (Chemical Name, Wt. %, CAS No.)

Dicumyl Peroxide 99+% 80-43-3	
IARC Group 1, Group 2A or Group 2B Carcinogen:	Not Listed
National Toxicology Program Known or Suspect Carcinogen:	Not Listed

ACGIH Confirmed or Suspected Carcinogen:
OSHA Select or Possible Select Carcinogen:

Not Listed
Not Listed

Acute Oral LD50 (mg/kg): 2000 mg/kg (rats)
Acute Dermal LD50 (mg/kg): Not Determined
Acute Inhalation LC50 (mg/l): Not Determined

Mutagenicity/Genotoxicity: No mutagenicity or genotoxicity studies have been carried out with this product.

Other Information: **PRODUCT/SIMILAR PRODUCT - REPORTED HUMAN EFFECTS:**
Mild skin irritant. Reported to cause nasal inflammation and dilation of the blood vessels, which persisted for a significant time after exposure was terminated. There are also reports of respiratory and eye irritation from heated vapor or dust of organic peroxides when proper respiratory protection was not used. Due to the physical nature of this material, it may cause eye, skin and respiratory irritation under certain conditions.

PRODUCT/SIMILAR PRODUCT - REPORTED ANIMAL EFFECTS:
Eye irritation (rabbit): mild conjunctivitis; no corneal effects. Not a skin irritant or sensitizer in guinea pig test using Buehler protocol. Rabbit insufflation test, repeated three times per day for up to four weeks at levels comparable with workplace exposure, indicated nasal inflammation that persisted for two months after termination of treatment.

PRODUCT/SIMILAR PRODUCT - MUTAGENICITY/GENOTOXICITY INFORMATION - Not mutagenic based on bacterial tests of this or a similar product.

12. ECOLOGICAL INFORMATION

Mobility: Not Determined
Persistence: Not Determined
Bioaccumulative: Not Determined
Ecotoxicological Information:
Acute Fish Toxicity: LC50 96 hr static: 1-10 mg/L (fathead minnow)
Acute Crustaceans Toxicity: Not Determined
Acute Algae Toxicity: Not Determined

Chemical Fate Information: Not Determined

Other Information: No ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of product in accordance with federal state and local regulations. Do NOT mix with other chemical wastes. Do not put solutions containing this product into sewer systems.

RCRA

Is the unused product a RCRA hazardous waste if discarded? (Yes/No)

Yes

If yes, the EPA Hazardous Waste Code is:

D003 (reactivity)

14. TRANSPORTATION INFORMATION

DOT:
DOT Status: Regulated material.
DOT Shipping Name: ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
UN/NA Number: UN3110
Hazard Class: 5.2
DOT Packing Group: II
ERG#: 145
Harmonized Tariff Number: 2909.60.2000

ICAO/IATA:
Status: Regulated material.
Proper Shipping Name: ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
UN/NA Number: UN3110
IATA-DGR Class: 5.2
Packing Group: None
ERG Code: #145

IMDG:
Status: Regulated material.
Proper Shipping Name: ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
UN/NA Number: UN3110
Hazard Class: 5.2
Packing Group: None
EMS No.: F-J, S-R

Flash Point (°F/°C) > 200° F / > 93° C

15. REGULATORY INFORMATION

International Inventories:

USA TSCA Inventory Status: All of the components of this product are listed on the US EPA TSCA Inventory, or exempt from listing.

Canadian DSL: All of the components of this product are listed on the Canadian Domestic Substances List.

Canadian NDSL: Some of the components of this product are not found on the Canadian Non-Domestic Substances List.

European - EINECS: All of the components of this product are listed on EINECS, or exempt from notification.

European - ELINCS: All of the components of this product are not listed on ELINCS.

EU - No-Longer Polymers List: None of the components of this product are listed on the EUNLP.

Japanese Chemical Inventory: All of the components of this product are listed on the JPENCS Inventory.

Philippines Chemical Inventory: All of the components of this product are found on the Philippines Inventory.

Australian Chemical Inventory: All of the components of this product are not listed on the Australian Chemical Inventory.

Korean Chemical Inventory: All of the components of this product are found on the Korean Existing Chemical Substances List.

State and Federal Regulations: (Chemical Name, Wt. %, CAS No.)

Dicumyl Peroxide 99+% 80-43-3
New Jersey Right-to-Know List: Listed

**New Jersey Trade Secret Registry
Number(s):**

N/A

SARA Section 311/ 312 Hazard Class:

This product is classified as a SARA ACUTE HEALTH HAZARD.
This product is classified as a SARA CHRONIC HEALTH HAZARD.
This product is classified as a SARA FIRE HAZARD.
This product is classified as a SARA SUDDEN RELEASE OF
PRESSURE HAZARD.
This product is classified as a SARA REACTIVE HAZARD.

Other Information:

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

16. OTHER INFORMATION

Prepared / Edited By:

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Telephone Number:

(267) 960-7926

Reference Number:

103199 PD

Revision Date:

10/24/2003

Additional Information:

None.

Important Note:

The information herein is given in good faith but no warranty, expressed or implied, is made.

*****END OF MSDS*****