

# MATERIAL SAFETY DATA SHEET

MSDS NO.: 444 7016 0100

VER: 13

GEO Specialty Chemicals, Inc.

SAP CODE:

500VC5008A00000002

Peroxy Chemicals

ISSUE DATE: 10/5/99

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SUPERSEDES: 444 7016 0100

VER: 12

Gibbstown, NJ 08027

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CHEMTREC EMERGENCY TELEPHONE NUMBER 1-800-424-9300

## 1 PRODUCT IDENTIFICATION

PRODUCT NAME

**VUL-CUP® 20P ORGANIC PEROXIDE**

CHEMICAL DESCRIPTION organic peroxide

CAS NUMBER mixture

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Ingredient	CASRN	Amount
di(2-tert-butylperoxyisopropyl) benzene	25155-25-3	19 - 21 %
silica	7631-86-9	5 %

## 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

Reactive: Exposure to temperatures above 149° F (65° C) may cause violent decomposition.

Reactive: Exposure to incompatible materials may cause violent decomposition.

May form flammable dust-air mixtures.

Static charges generated by emptying package in or near flammable vapors may cause flash fire.

May cause mild, temporary eye irritation.

May cause mild skin irritation.

Inhalation of dust may cause mild respiratory tract irritation.

Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

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**HARWICK STANDARD  
DISTRIBUTION CORPORATION**

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## 4 FIRST AID MEASURES

### SKIN

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

### EYE

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.

### INHALATION

Remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.

### INGESTION

Not an ingestion hazard under anticipated conditions of use. For accidental ingestion: If conscious, drink one to two glasses of water (8-16 oz.). Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

## 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Water spray, dry chemical or carbon dioxide may be used on fires involving this product.

### FIRE FIGHTING PROCEDURES

Evacuate area and fight fire from a safe distance. Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product. Cool containers to prevent rupture.

### CONDITIONS TO AVOID

Avoid exposing containers to fire as rapid product decomposition, container pressure buildup and failure, and vigorous burning with flare effect will occur.

### HAZARDOUS COMBUSTION PRODUCTS

If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide and irritating partial combustion products.

### FLASH POINT

455 F

Setaflash

## 6 ACCIDENTAL RELEASE MEASURES

If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers, and dispose appropriately. Do NOT mix with Oil-Dri® absorbent or any acidic materials. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

## 7 HANDLING & STORAGE

### GENERAL MEASURES

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.

Store in well ventilated area.

Keep container closed when not in use.

#### MATERIALS OR CONDITIONS TO AVOID

Avoid temperatures above 149° F (65° 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.

Do not store near flammable materials.

Avoid storing product near incompatible materials. See MSDS Section 10.

Do not store in direct sunlight.

To avoid lumping, store below 35° C (95° F).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### WORK PRACTICES & ENGINEERING CONTROLS

Eyewash fountains and safety showers should be easily accessible.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

#### GENERAL HYGIENIC PRACTICES

Avoid contact with eyes, skin, and clothing.

Avoid breathing dust, vapor or mist.

Avoid contamination of food, beverages, or smoking materials.

Wash thoroughly after handling, and before eating, drinking or smoking.

Remove contaminated clothing promptly and clean thoroughly before reuse.

#### RECOMMENDED EXPOSURE LIMITS

PARTICULATES (dust): If used under conditions that generate particulates (dust), the ACGIH TLV-TWA of 3 mg/m<sup>3</sup> respirable fraction (10 mg/m<sup>3</sup> total) should be observed.

#### PERSONAL PROTECTIVE EQUIPMENT

Chemical goggles

Impervious gloves

Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturers recommendations.

Appropriate protective clothing

#### PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE

Eliminate ignition sources and prevent build-up of static electrical charges.

Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

Keep area clean. Product will burn.

## 9 PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: powder

COLOR white

ODOR: acrid

Specific Gravity lighter than water

Melting Point 113 - 131 F

Percent Volatile negligible at 20 C

Solubility In Water slight

## 10 STABILITY & REACTIVITY

#### HAZARDOUS DECOMPOSITION PRODUCTS

If heated to decomposition, the following substances may be formed: ketones, alcohols, methane, ethane and aromatic alcohols. Decomposition products are flammable.

Decomposition products may cause eye, skin or respiratory irritation.

#### HAZARDOUS POLYMERIZATION

Not anticipated under normal or recommended handling and storage conditions.

#### GENERAL STABILITY CONSIDERATIONS

Stable under recommended handling and storage conditions  
Temperatures above 149° F (65° C) may lead to exothermic decomposition.

#### INCOMPATIBLE MATERIALS

Incompatible with: acids, acidic-type materials such as Friedel-Crafts catalysts, oxidizing agents and reducing agents

## 11 TOXICOLOGICAL INFORMATION

#### CARCINOGENICITY INFORMATION

PRODUCT/SIMILAR PRODUCT - Not listed as a carcinogen by NTP.  
Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

#### REPORTED HUMAN EFFECTS

PRODUCT/SIMILAR PRODUCT - GEO Incorporated has received reports of respiratory and eye irritation from heated vapor or dust when proper industrial hygiene protection was not used. No published reports of human effects have been found. Due to the physical nature of this material, may cause eye, skin and respiratory irritation.

#### REPORTED ANIMAL EFFECTS

PRODUCT/SIMILAR PRODUCT - No animal toxicity studies have been carried out with this product.

COMPONENT - di-(2-tert-butylperoxyisopropyl)-benzene: Not toxic by OSHA/ANSI criteria based on acute animal peroral testing of this or a similar product (LD50 >500 mg/kg). Eye irritation (rabbit): minimal irritation; skin irritation (rabbit): mild irritant; skin (guinea pigs): no skin irritation; not a skin sensitizer. Acute vapor inhalation studies (vapor generated by heating peroxide to 125° F) showed no adverse effects in mice, rats or guinea pigs at 100 mg/m3.

#### MUTAGENICITY/GENOTOXICITY INFORMATION

PRODUCT/SIMILAR PRODUCT - No mutagenicity studies have been carried out with this product.

COMPONENT - di-(2-tert-butylperoxyisopropyl)-benzene: Negative in Ames assay.

## 12 ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

PRODUCT/SIMILAR PRODUCT - No ecological studies have been carried out on this product.

## 13 DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL

Disposal should be in accordance with applicable Federal, State and local regulations. Do not mix concentrations or solutions of product with other chemical wastes. Do not put solutions containing product into sewer systems. For more information regarding disposal of this product, please contact your GEO representative.

## 14 TRANSPORT INFORMATION

#### GENERAL

This product is not subject to DOT ICAO, IMDG or ADR regulations.

## 15 REGULATORY INFORMATION

#### CHEMICAL INVENTORIES

U.S. TSCA: The components of this product are included on the TSCA Inventory.

#### SARA TITLE III - SECTIONS 302/304

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

#### SARA TITLE III - SECTION 311 AND 312

HC-1: Acute health hazard

HC-3: Fire hazard

HC-4: Sudden release of pressure hazard

#### SARA TITLE III - SECTION 313

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

#### CERCLA

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40CFR302.4.

#### RCRA

This product is not a hazardous waste as listed in 40CFR261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR261, Subpart C.

## 16 OTHER INFORMATION

#### HMIS RATINGS:

Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	1	Slight Hazard

NFPA 432 - Organic Peroxide Classification

Class V

#### LIST OF ACRONYMS

ACGIH: American Conferences of Governmental Industrial Hygienists  
AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level

CASRN: Chemical Abstracts Service Registry Number

CERCLA: Comprehensive Emergency Response, Compensation and Liability Act

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: OSHA Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act

RQ: Reportable Quantity

SARA: Superfund Amendment Reauthorization Act

STEL: Short-Term Exposure Limit

TLV: Threshold Limit Values (registered trademark of ACGIH)

TPQ: Threshold Planning Quantity

TSCA: Toxic Substance Control Act

TWA: Time Weighted Average

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REVISION DATE: 05-18-2001

#### DISCLAIMER

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.