### MATERIAL SAFETY DATA SHEET

GEO Specialty Chemicals, Inc.

**Peroxy Chemicals** 

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Gibbstown, NJ 08027

1-800-423-7193 [24 hr]

CHEMTREC EMERGENCY TELEPHONE NUMBER 1-800-424-9300

# 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

CHEMICAL DESCRIPTION

OSHA Hazardous Ingredient

# **DI-CUP® 40CF DICUMYL PEROXIDE**

precipitated calcium carbonate mixture CAS NUMBER

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

dicumyl peroxide	80-43-3	40 %	
calcium carbonate	471-34-1	60 %	

dicumyl peroxide supported on

CASRN

Amount

### 3 HAZARDS IDENTIFICATION **EMERGENCY OVERVIEW**

WARNING

POTENTIAL HEALTH EFFECTS

Reactive: Exposure to temperatures above 55° C (131° F) may cause violent decomposition. Reactive: Exposure to incompatible materials may cause violent decomposition.

May cause mild eye irritation.

May cause mild skin irritation.

Inhalation of dust may cause mild respiratory tract irritation.

Static charges generated by emptying package in or near

flammable vapors may cause flash fire. May form flammable dust-air mixtures.

Prolonged or repeated exposure may cause nasal irritation and MARKETED BY

# HARWICK STANDARD **DISTRIBUTION CORPORATION**

60 S. Seiberling Street • Akron, Ohio 44305

nosebleeds persisting after termination of exposure

4 FIRST AID MEASURES

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

### 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. If nasal or throat irritation persists for more than a day, get medical attention.

INGESTION

Not an ingestion hazard under anticipated conditions of use. 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.

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

approved (or equivalent) and full protective gear when fighting fires involving this product.

FIRE FIGHTING PROCEDURES

Evacuate area and fight fire from a safe distance. Cool containers with water to prevent rupture. CONDITIONS TO AVOID Avoid exposing containers to fire as rapid product decomposition,

FLASH POINT 248° F

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

Setaflash

# 6 ACCIDENTAL RELEASE MEASURES

If product is not contaminated, collect into clean, properly labeled containers for use as soon as possible. As an additional 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

precaution, do NOT return material to original container. product is contaminated, collect into clean, properly labeled

containers and dispose appropriately. 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. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices. For additional disposal information, refer

to Section 13, Disposal Considerations.

attached to the bag ground connection. Store in a cool, dry, well ventilated area. Keep container closed when not in use.

MATERIALS OR CONDITIONS TO AVOID Avoid temperatures above 55° C (131° F) 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

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

OSHA - Time Weighted Averages calcium carbonate 10 mg/m3PERSONAL 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 off-white ODOR acrid

PARTICULATES (dust): If used under conditions that generate particulates (dust), the ACGIH TLV-TWA of 3 mg/m3 respirable

15 mg/m3

fraction (10 mg/m3 total) should be observed.

#### Softening Point 85° F value for component

Solubility In Water negligible

RECOMMENDED EXPOSURE LIMITS

calcium carbonate

ACGIH 1997 - Time Weighted Average

# 10 STABILITY & REACTIVITY

Boiling Point

Bulk Density

conditions.

Specific Gravity Vapor Density

HAZARDOUS DECOMPOSITION PRODUCTS

If heated to decomposition, the following substances may be

alpha-methyl styrene , methane and ethane . Phenol and acetone may be formed under acid conditions. Decomposition products are flammable. Decomposition products may cause eye,

HAZARDOUS POLYMERIZATION

Not anticipated under normal or recommended handling and storage

skin or respiratory irritation, and may be skin sensitizers.

decomposes before boiling

heavier than air

30 lbs/cu ft

acetophenone, alpha, alpha-dimethyl benzyl alcohol

Stable under recommended handling and storage conditions Temperatures above 55° C (131° F) may lead to exothermic decomposition.

Incompatible with: acids , acidic-type materials such as

Friedel-Crafts catalysts , oxidizing agents and reducing agents

# 11 TOXICOLOGICAL INFORMATION

proper respiratory protection was not used.

COMPONENT - dicumyl peroxide: Oral LD50 (rat):

CARCINGENICITY INFORMATION

INCOMPATIBLE MATERIALS

GENERAL STABILITY CONSIDERATIONS

Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

REPORTED HUMAN EFFECTS

No human toxicity studies have been carried out with this product

Due to the physical nature of this material, may cause eye, skin

and respiratory irritation.

COMPONENT - dicumyl peroxide: Mild skin irritant. Reported to cause nasal inflammation and dilation of the blood vessels, which persisted for a significant time after exposure was terminated. GEO Incorporated has received reports of respiratory and eye irritation from heated vapor or dust of organic peroxides when

REPORTED ANIMAL EFFECTS
SIMILAR PRODUCT: Inhalation of dust at 21-224 mg/m3 (rat, six hours) caused no observable effects during exposure or the 14-day recovery period.

2000 mg/kg.

Eye

for up to four weeks at levels comparable with workplace exposure, indicated nasal inflammation that persisted for two months after termination of treatment.

irritation (rabbit): mild conjunctivitis; no corneal effects. No a skin irritant or sensitizer in guinea pig test using Buehler protocol. Rabbit insufflation test, repeated three times per day

MUTAGENICITY/GENOTOXICITY INFORMATION

No mutagenicity studies have been carried out with this product

### 12 ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No ecological studies have been carried out on this product

COMPONENT - dicumyl peroxide: Acute aquatic 96-hour static LC50 value falls within the moderately toxic range of 1-10 mg/L,

according to the U. S. Fish and Wildlife criteria. Fathead minnow was the tested species. The bacterial multiplication inhibition test revealed no evidence of bacteriostatic activity at 5000 ppm. Pseudomonas putida was the species tested.

# 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Incineration at an authorized disposal facility is the recommended method of disposal. Solidify the material (if required) by mixing with absorbent in a fiber drum (no larger than 30 gallons in size) to a peroxide level of 40% or lower.

Recommended absorbents include soda ash, calcium carbonate, clean sand, and clay if known to be inert and non-acidic. Do NOT mix with vermiculite, Oil-Dri® absorbent, or any other comparable materials that may be acidic. The disposal facility must

incinerate the entire drum without shredding, and without mixing

with other chemical wastes, to avoid exposure to heat or

incompatible materials. For more information regarding disposal of this product, please contact your GEO representative. 14 TRANSPORT INFORMATION

### 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.

Canadian CEPA: Included on DSL Inventory. Australian AICS: Included on AICS Inventory.

European EINECS : Included on EINECS list. Japanese MITI: Included on MITI Gazette.

Philippine PICCS: Included in draft PICCS Inventory.

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

SARA TITLE III - SECTIONS 302/304

SARA TITLE III - SECTION 311 AND 312 HC-1: Acute health hazard

HC-2: Chronic 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 1 Slight Hazard Fire

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) TPO: Threshold Planning Ouantity

TSCA: Toxic Substance Control Act TWA: Time Weighted Average

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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 The user of this product must decide what safety information.

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.