

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Substance name : Westco DCP 40C  
 Synonyms : DICUMYL PEROXIDE 40 / DICUMYL PEROXIDE 40% WITH 60% CALCIUM CARBONATE

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Polymerization initiator  
 Polymer crosslinking  
 Rubbers  
 Polyolefins  
 Restrictions on use : No additional information available

#### 1.3. Supplier

Western Reserve Chemical Corporation  
 4837 Darrow Road  
 Stow, OH 44224 - USA  
 T 330 650 2244 - F 330 650 2255  
[www.wrchem.com](http://www.wrchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1 800 424 9300 USA

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Flammable solids, Category 2 H228 Flammable solid.  
 Organic Peroxides, Type G  
 Skin corrosion/irritation, Category 2 H315 Causes skin irritation.  
 Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.  
 Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labelling

Hazard pictograms (GHS) : 

Signal word (GHS) : Warning  
 Hazard statements (GHS US) : H228 - Flammable solid.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 Precautionary statements (GHS) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240 - Ground/bond container and receiving equipment  
 P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 - If on skin: Wash with plenty of 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.  
 P321 - Specific treatment (see supplemental first aid instruction on this label).  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
 P370+P378 - In case of fire: Use media other than water to extinguish.

#### 2.3. Other hazards which do not result in classification

No additional information available

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### 2.4. Unknown acute toxicity (GHS\_US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS classification
calcium carbonate	(CAS-No.) 471-34-1	60	Not classified
Dicumyl peroxide	(CAS-No.) 80-43-3	40	Org. Perox. F, H242 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with plenty of water (for at least 15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Drink two glasses of water. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. Redness. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. Redness. stinging.
Symptoms/effects after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Nausea. Vomiting.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water. Water spray. dry extinguishing powder.
Unsuitable extinguishing media	: Do not use halons.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable solid. Heating may cause a fire. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2). methane. acetophenone. 2-Phenylisopropanol.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Evacuate area.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.
Other information	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. No open flames. No smoking. Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe dust.
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### 6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.  
Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Moisten spilled material with water. Contain and collect as any solid. Scoop up and store in non-combustible container. Do not manipulate the product in a confined space.  
Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Hazardous waste due to potential risk of explosion.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not burn empty packaging. Do not cut using a blowtorch. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to shock, friction.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Keep only in original container. Keep container closed when not in use.  
Incompatible products : Reducing agents. Acids. Alkali. Metal compounds. Heavy metals. Rust.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Combustible materials.  
Storage temperature : ≤ 30 °C  
Prohibitions on mixed storage : Keep away from incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Westco DCP 40C</b>	
No additional information available	
<b>calcium carbonate (471-34-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA) (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
NIOSH REL (STEL) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Dicumyl peroxide (80-43-3)</b>	
No additional information available	

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Avoid creating or spreading dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof ventilating equipment.  
Environmental exposure controls : Avoid release to the environment. Prevent contaminated water run-off. Prevent leakage or spillage.

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### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves. Synthetic rubber

#### Eye protection:

tightly fitting safety goggles

#### Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing. Chemical resistant apron

#### Respiratory protection:

Wear appropriate mask. Dust production: dust mask with filter type P2. Full face respirator. In case of insufficient ventilation, wear suitable respiratory equipment. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Off-white
Odour	: Pungent
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable solid. 2.9 mm/s (Method: The Manual of Tests and Criteria - Part 33.2.1) Wetted zone stops the fire for at least 4 minutes.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: soluble in most organic solvents.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Heating may cause a fire.
Oxidising properties	: No data available

### 9.2. Other information

SADT : 91 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

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### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7). Heating may cause a fire.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. Do not manipulate the product in a confined space.

### 10.5. Incompatible materials

Acids. Reducing agents. Alkali. Heavy metals. Metal compounds. Rust.

### 10.6. Hazardous decomposition products

methane. acetophenone. 2-Phenylisopropanol.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

calcium carbonate (471-34-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 3 mg/l/4h

Dicumyl peroxide (80-43-3)	
LD50 oral rat	4100 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE (oral)	4100 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching.

Symptoms/effects after eye contact : Causes serious eye irritation. Redness. stinging.

Symptoms/effects after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Nausea. Vomiting.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

calcium carbonate (471-34-1)	
LC50 fish 1	> 100 % v/v, 96 h
EC50 crustacea	> 100 % v/v, 48 h

Dicumyl peroxide (80-43-3)	
LC50 fish 1	0.47 mg/l 96 h
EC50 crustacea	> 100 mg/l 48 h
EC50 Daphnia 2	0.26 mg/l 48 h
ErC50 (algae)	> 15 mg/l 72 h

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Dicumyl peroxide (80-43-3)	
LOEC (chronic)	0.247 mg/l 21 d Daphnia magna
NOEC chronic crustacea	0.177 mg/l 21 d Daphnia magna
NOEC chronic algae	2.1 mg/l

### 12.2. Persistence and degradability

Westco DCP 40C	
Persistence and degradability	May cause long-term adverse effects in the environment.

Dicumyl peroxide (80-43-3)	
Persistence and degradability	Not readily biodegradable. Biodegrades slowly.
Biodegradation	20.2 – 43.8 % 28 d

### 12.3. Bioaccumulative potential

Westco DCP 40C	
Bioaccumulative potential	Not expected to bioaccumulate.

Dicumyl peroxide (80-43-3)	
Log Pow	5.6 @ 25 °C
Bioaccumulative potential	Not potentially bioaccumulable.

### 12.4. Mobility in soil

Westco DCP 40C	
Ecology - soil	Not established.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1325 Flammable solids, organic, n.o.s. (Dicumyl peroxide), 4.1, III  
UN-No.(DOT) : UN1325  
Proper Shipping Name (DOT) : Flammable solids, organic, n.o.s.  
Dicumyl peroxide  
Transport hazard class(es) (DOT) : 4.1 - Class 4.1 - Flammable Solid 49 CFR 173.124  
Packing group (DOT) : III - Minor Danger  
Hazard labels (DOT) : 4.1 - Flammable solid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 213  
DOT Packaging Bulk (49 CFR 173.xxx) : 240  
DOT Packaging Exceptions (49 CFR 173.xxx) : 151  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg

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DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 133
Other information	: No supplementary information available.

### Transport by sea

Transport document description (IMDG)	: UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (Dicumyl peroxide), 4.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
UN-No. (IMDG)	: 1325
Proper Shipping Name (IMDG)	: FLAMMABLE SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 4.1 - Flammable solids, self-reactive substances and solid desensitized explosives
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 kg

### Air transport

Transport document description (IATA)	: UN 1325 Flammable solid, organic, n.o.s. (Dicumyl peroxide), 4.1, III, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	: 1325
Proper Shipping Name (IATA)	: Flammable solid, organic, n.o.s.
Class (IATA)	: 4.1 - Flammable solids
Packing group (IATA)	: III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### calcium carbonate (471-34-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### Dicumyl peroxide (80-43-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### National regulations

##### calcium carbonate (471-34-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on Taiwan National Chemical Inventory  
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Data sources	: TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscaiinventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscaiinventory/howto.html</a> . European Chemicals Agency (ECHA) C&L Inventory database. Accessed at
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<http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. ACGIH (American Conference of Government Industrial Hygienists). Manufacturer Information. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. NFPA 400-2013 Hazardous Materials Code.

Other information : None.

Full text of H-statements:

H228	Flammable solid.
H242	Heating may cause a fire.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

NFPA specific hazard

: OX - Materials that possess oxidizing properties.

Hazard Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

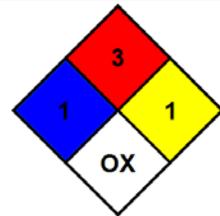
Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection

: J

J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator



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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*