

SECTION 1: Identification of Product and Company

1.1. Product identifier

Product form : Mixture
 Product name : Westco DCP 40C
 Restrictions on use : No additional information available

1.2. Company identification

Western Reserve Chemical Corporation
 4837 Darrow Road
 44224 Stow, OH - USA
 T 330 650 2244 - F 330 650 2255
www.wrchem.com

Emergency number : CHEMTREC 1 800 424 9300 USA

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS

Flammable solids, Category 2
 Organic Peroxides, Type G
 Skin corrosion/irritation, Category 2
 Serious eye damage/eye irritation, Category 2
 Hazardous to the aquatic environment — Chronic Hazard, Category 2

2.2. Label elements

GHS BR labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

H228 - Flammable solid.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H411 - Toxic to aquatic life with long lasting effects.

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.
 P273 - Avoid release to the environment.
 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.
 P391 - Collect spillage.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS
calcium carbonate	(CAS-No.) 471-34-1	60	Not classified

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Name	Product identifier	%	Classification according to GHS
Dicumyl peroxide	(CAS-No.) 80-43-3	40	Org. Perox. F, H242 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

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, both 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. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- 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. Advice for firefighters

- 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.

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.

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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.

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

calcium carbonate (471-34-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	10 mg/m ³

8.2. Exposure 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.

8.3. 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

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

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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

Chemical stability	: Stable under recommended handling and storage conditions (see section 7). Heating may cause a fire.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. Do not manipulate the product in a confined space.
Hazardous decomposition products	: methane. acetophenone. 2-Phenylisopropanol.
Incompatible materials	: Acids. Reducing agents. Alkali. Heavy metals. Metal compounds. Rust.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.
Reactivity	: No dangerous reactions known.
Handling temperature	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

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

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

11.2. Most important symptoms and effects, both 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.

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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.

Hazardous to the aquatic environment, short-term (acute) : Not available

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Other information : Avoid release to the environment.

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
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

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

14.1 National and international Regulations

Overland transport

UN-No. : UN 1325

Transport document description : UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (Dicumyl peroxide), 4.1, III, (E), ENVIRONMENTALLY HAZARDOUS

Transport hazard class(es) : 4.1

Danger labels : 4.1



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Packing group : III
Dangerous for the environment : Yes

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

14.2 Other information

No additional information available

SECTION 15: Regulatory information

Regional legislation : No additional information available

SECTION 16: Other information

Other information : None.
Data sources : TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <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.
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



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

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