



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco DCP 40KE

Other means of identification:

Synonyms: DICUMYL PEROXIDE 40 or DICUMYL PEROXIDE 40% WITH 60% KAOLINE CLAY

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco DCP 40KE is a crosslinking agent for synthetic rubbers and polyolefins. It provides lower compression set and better heat resistance than sulfur cured compounds.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation

Address: 4837 Darrow Road
Stow, OH 44224
USA

General Phone Number: 330 650 2244

General Fax Number: 330 650 2255

Emergency phone number::

Emergency Phone Number: Chemtrec 1 800 424 9300 USA

Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: WARNING!

GHS Class: Eye Irritant, Category 2. * Skin Irritant, Category 2.
* Hazardous to the aquatic environment; Chronic, Category 2, Acute, Category 2.

Hazard Statements:

- * Causes skin irritation.
- * Causes serious eye irritation.
- * Toxic to aquatic life with long lasting effects.
- * Heating may cause a fire.

Organic peroxide. May form combustible dust concentrations in air. Hazardous decomposition may occur.

Precautionary Statements:

- * Wash hands thoroughly after handling.
- * Avoid release to the environment.
- * Wear protective gloves/protective clothing/eye protection/face protection.
- * IF ON SKIN: Wash with plenty of soap and water.
- * IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- * Collect spillage.
- * Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.
- * If eye irritation persists: Get medical advice/attention.
- * If skin irritation occurs: Get medical advice/attention.

Hazards not otherwise classified that have been identified during the classification process:

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Dicumyl Peroxide	80-43-3	40 %	201-279-3
KAOLIN	1332-58-77	60 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Rinse for a long time with plenty of water. In case of eye-sight disturbances bring victim Immediately into hospital. In other case, call for a doctor.
Skin Contact:	Remove contaminated clothes as soon as possible. Remove residue substance as soon as possible (e.g. rinse with plenty of water). In case of a serious exposure call for a doctor.
Inhalation:	Bring victim into fresh air as soon as possible and let him rest. In case of severe exposure, call for a doctor. In case of breath problem, loose squeezing clothes and if victim is conscious bring him in high sitting position. In case of stagnation of breathing give IMMEDIATELY oxygen and transport to hospital as soon as possible.
Ingestion:	If victim is conscious, let him drink 1 or 2 glasses of water. In case of general disorders, bring victim into hospital. Otherwise call for a doctor.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Advice to physician: Symptomatic treatment is advised.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Water, water spray, special extinguishing powder.
Unsuitable extinguishing media:	Halon (substance inside some types of fire extinguishers) Do not use halon-type fire extinguisher in case of fire.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: Carbon dioxide, Methane, Acetophenone, 2-Phenylisopropanol

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Notes :	Other information: Cool closed containers with water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Avoid contact with skin. Do not breathe dust. For personal protection see Section 8.

Environmental precautions:

Environmental Precautions: Collect as much as possible in a clean container for (preferable) reuse or disposal. Do not empty into drains.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	Pick or scoop up material and put into a suitable container for proper disposal.
Methods for cleanup:	First moisten with water. The waste should NOT be confined. Sweep up with dustpan and brush off inert material, flushing the remainder with water.
Notes :	Other information: For personal protection see Section 8.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Confinement must be avoided. Do not allow to dry out. Avoid dust generation. Fire and explosion prevention: Use explosion protected equipment . Keep away from sources of ignition- No smoking. Avoid shock and friction.
Hygiene Practices:	* Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. * Follow good industrial hygiene practices when handling this material. * When using, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities:	
Storage:	Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Store in accordance with local/national regulations. Store in a dry well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

Specific end use(s):

Work Practices:

* Safety showers and eye wash stations should be available.

Notes :

Electrostatic Accumulation Hazard: Yes Storage/Transport Temperature, 85F (30C) maximum

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:

Explosion proof ventilation, recommended. Avoid the creation of dust.

Individual protection measures:

Eye/Face Protection:

Wear eye/face protection (dust goggles) unless a full face respirator (recommended) is used.

Skin Protection Description:

Wear suitable protective clothing and gloves. Take off contaminated clothing immediately.

Hand Protection Description:

Wear suitable protective gloves (butyl rubber or synthetic rubber gloves).

Respiratory Protection:

Avoid breathing dust. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full face piece equipment is recommended and, if used, replaces need for chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Ensure good ventilation and local exhaustion of the working area.

Inhalation: Dust mask P2

Other Protective:

Launder clothes before reuse.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:

Solid

Color:

White

Odor:

Specific

Boiling Point:

Do not distill (Decomposes)

Melting Point:

39 deg C. Gr.

Density:

1110 kg/m²
Bulk density: 600 kg/m²

Solubility:

Solubility in other solvents: In most organic solvents

Vapor Density:

Relative vapour density (air=1): Not determined

Vapor Pressure:

Not relevant

Percent Volatile:

0.2% max.

pH:

Neutral character

Flash Point:

More than 75 deg C. Gr.

Auto Ignition Temperature:

More than 380 deg C. Gr.

Explosive Properties:

Explosion limits: Not applicable

Oxidizing Properties:

Not Applicable

9.2. Other information:

Notes :

Flammability: Not determined

Active oxygen content: 5.8%

Peroxide content: 99%

SADT: 75 deg C. GR. See also Section 10

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity:

Reaction with water: No

Chemical Stability:

Chemical Stability:

Stable under normal temperature and processing.
A dangerous self-accelerating decomposition reaction and, under certain circumstance, explosion of fire can be caused by direct contact with incompatible substances or by thermal decomposition at and above the following temperature: 75 deg C. GR.

Conditions To Avoid:

Conditions to Avoid: Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Confinement must be avoided.

Incompatible Materials:

Incompatible Materials: Use only Stainless steel 316, PVD, polyethylene or glasslined equipment. Hazardous decomposition products. Methane, Acetophenone, 2-Phenylisopropanol.

Notes : Other information: The SADT (self accelerating decomposition temperature) is an experimentally derived temperature at which the product in a typical package will undergo self accelerating decomposition.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Notes : Refer to Section 3 for available information on health effects.

SECTION 12 : ECOLOGICAL INFORMATION

Dicumyl Peroxide :

Ecotoxicity:

Ecotoxicity: No experimental ecological data are available on the preparation as such. The following data are applicable to the ingredient(s) listed below

Fish:
LC50: > max attainable concentration

Daphnia:
EC50 > 0.388 mg/l (max attainable concentration)
21 days no observed effect concentration (NOEC): 0.117 mg/l

Algae:
72 hours EbC50 >20 mg/l
72 hours NOECb 3.2 mg/l

Bacteria
Activated sludge respiration inhibition test EC50 >1000 mg/l

Environmental Fate: Degradation abiotic: insoluble Degradation biotic: inherentlt biodegradable (closed bottle test)

Bioaccumulation: Bio concentration factor (BCF) 137-1470

Fate: log koc 3.98 at 25°C

Notes : Refer to Section 6 for accidental release information and Section 15 for reporting information.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT Pictograms:



IATA Shipping Name: Organic Peroxide Type F, Solid Dicumyl Peroxide 40%

IATA UN Number: 3110

IATA Hazard Class: 5.2

IATA Packing Group: II

IATA Pictograms:



IMDG UN Number : 3110

IMDG Shipping Name : Organic Peroxide Type F, Solid Dicumyl Peroxide 40%

IMDG Hazard Class : 5.2

IMDG Packing Group : II

ADR UN Number: 3110

ADR Shipping Name : Organic Peroxide Type F, Solid Dicumyl Peroxide 40%

ADR Hazard Class: 5.2

ADR Packing Group : II

RID UN Number : 3110

RID Shipping Name : Organic Peroxide Type F, Solid Dicumyl Peroxide 40%
 RID Hazard Class : 5.2
 RID Packing Group : II
 ICAO UN Number : 3110
 ICAO Shipping Name: Organic Peroxide Type F, Solid Dicumyl Peroxide 40%
 ICAO Hazard Class : 5.2
 ICAO Packing Group : II
 Notes : Marine Pollutant - IMO/IMDG

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Dicumyl Peroxide :

EC Number: 201-279-3



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1
 HMIS Fire Hazard: 2
 HMIS Reactivity: 1
 HMIS Personal Protection: J

Health Hazard	1
Fire Hazard	2
Reactivity	1
Personal Protection	J

SDS Revision Date: July 10, 2015

Notes : Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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