P411+P235 Store at temperatures not exceeding +30°C (86°F). Keep cool.

Do not mix with peroxide-accelerators or reducing agents.

Dispose of contents/container in accordance with local/regional/national/international



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1 Identification of the substand	e/mixture and of the company/undertaking		
	PEROXAN DC 80-43-3 201-279-3 e substance or mixture and uses advised against No further relevant information available.	DISTRIBUTED BY: R.E. CARROLL, INC. 1570 NORTH OLDEN AVENUE EXT. EWING, N.J. 08638-3204 USA T: 609-695-6211/800-257-9365 F: 609-695-0102 Orders@RECarroll.com	
<ul> <li>Application of the substance /</li> </ul>			
the mixture	Reaction initiator For industrial use		
· 1.3 Details of the supplier of the	safety data sheet		
Manufacturer/Supplier:	Pergan Marshall LLC 710 Bussey Road Marshall TX 75670 903-934-7763		
Further information obtainable			
from: • 1.4 Emergency telephone number:	903-934-7763 or 877-2-Pergan (877-273-7426) <u>customerservice@pergan.com</u> CHEMTREC (24 hours) 800-424-9300 Pergan Marshall LLC 903-938-5141		

### **2 Hazards identification**

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

Organic Peroxide - Type F	H242 Heating may cause a fire.
Aquatic Toxicity, Chronic - 2	H411 Toxic to aquatic life with long lasting effects.
Skin Irritant - 2	H315 Causes skin irritation.
Eye Irritant - 2	H319 Causes serious eye irritation.

GHS Classification Scale (1 = severe hazard; 4 = slight hazard)

#### · 2.2 Label elements · Hazard symbols · Signal word Warning · Hazard-determining components of labelling: Dicumyl peroxide Hazard statements H242 Heating may cause a fire. H315 Causes skin irritation. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). P234 Keep only in original container. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Protect from sunlight. P410

P420

P501

regulations.

	(Contd. on page 2)



# Trade name: **PEROXAN DC**

3 Composition/information on	ingredients	
3.1 Chemical characterization: S     CAS No. Description     Identification number(s)	ubstances 80-43-3 Dicumyl peroxide	
· EC number:	201-279-3	
First aid measures		
- 4.1 Description of first aid meas	ures	
<sup>:</sup> After inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
· After skin contact:	In case of unconsciousness, place patient stably in side position for transportation. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.	
<ul> <li>After eye contact:</li> <li>After swallowing:</li> <li>If irritation persists or if contact has been prolonged, obtain medical attention.</li> <li>Rinse opened eye for at least 15 minutes under running water. Get medical attention.</li> <li>Obtain medical attention. If patient is fully conscious, rinse mouth with water. Give water to drink in si (diluting effect) Never give anything by mouth to an unconscious person. Do NOT induce vomiting.</li> </ul>		
• 4.2 Most important symptoms and effects, both acute and		
delayed • 4.3 Indication of any immediate medical attention and special	No further relevant information available.	
treatment needed	No further relevant information available.	
Firefighting measures		
5.1 Extinguishing media Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
<ul> <li>5.2 Special hazards arising from the substance or mixture</li> </ul>	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbon dioxide and -monoxide.	
5.3 Advice for firefighters		
Protective equipment:     Additional information	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!	
Accidental release measures		
6.1 Personal precautions,		
protective equipment and emergency procedures	Keep away from ignition sources.	
g P	In case of further temperature, cool with water spray from a safe distance.	
	Wear breathing apparatus during decomposition of materials. Wear protective equipment. Keep unprotected persons away.	
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.	
6.3 Methods and material for		
containment and cleaning up:	Ensure adequate ventilation.	
	Large quantities should be diluted with suitable desensitization agent to a concentration below	
	10% before disposal. Pick up mechanically. Collect in suitable container and dispose of in accordance with	
	government regulations.	
	In case of large spillage, the environmental authority should be informed.	

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# 7 Handling and storage

<ul> <li>7.1 Precautions for safe</li> <li>handling</li> <li>Keep receptacles tightly sealed.</li> <li>Store in cool, dry place in tightly closed receptacles.</li> <li>Keep away from heat and direct sunlight.</li> </ul>	
Open and handle receptacle with care. Prevent formation of dust. Wear suitable respiratory protective device when decanting larger quantities without extractor faci Do not refill residue into storage receptacles. Restrict the quantity stored at the work place. Before break and at the end of work hands should be thoroughly washed. Only use tools made of suitable materials (e. g. polyethylene or stainless steel). Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. metal compounds and amines). Oxidizing because of releasing oxygen. While using do not eat, drink or smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Take precautionary measures against static discharges. Do not smoke.	
Information about fire and	
explosion protection:       Protect from heat.         Protect against electrostatic charges.       Prevent impact and friction.         Use explosion-proof apparatus / fittings and spark-proof tools.       Dust can combine with air to form an explosive mixture.         Substance/product is oxidizing when dry.       Product is not explosive. However, formation of explosive air/dust-mixtures is possible.         Avoid open flames, sparks, direct sunlight and other sources of ignition.       Keep ignition sources away – Do not smoke.	
7.2 Conditions for asfe storage, including any incompatibilities	
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>Storage: Pay attention to the special requirements of your local authorities for storing dangerous goods.</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original receptacle.</li> </ul>	
Prevent any seepage into the ground.	
<ul> <li>Information about storage in one common storage facility:</li> <li>Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.</li> </ul>	
Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Protect from contamination. Store in a cool location.	
Recommended storage temperature (To maintain quality): max.: +30 °C (86°F) Storage class: 5.2	
• 7.3 Specific end use(s) No further relevant information available.	

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#### 8 Exposure controls/personal protection · Additional information about design of technical facilities: No further data; see item 7. · 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: Not required. 8.2 Exposure controls · Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Be sure to clean skin thoroughly after work and before breaks. · Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory device when insufficiently ventilated. · Protection of hands: Use chemical-protective gloves. · Material of gloves Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene · Eye protection: Wear suitable eye protection: face shield, safety goggles. Contact lenses should not be worn. Protective work clothing · Body protection:

#### 9 Physical and chemical properties

<ul> <li>9.1 Information on basic physical and c</li> <li>General Information</li> <li>Appearance:</li> <li>Form:</li> <li>Color:</li> <li>Odor:</li> </ul>	crystalline White Weak, characteristic
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	35 - 45 °C Not applicable.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	May cause fire.
Decomposition temperature:	+80 °C (176° F) (SADT)
<ul> <li>Danger of explosion:</li> </ul>	Product is not explosive. However, formation of explosive air/dust mixtures is possible.
· Density at 20 °C:	1.10 g/cm <sup>3</sup>
<ul> <li>Solubility in / Miscibility with</li> <li>water:</li> </ul>	Insoluble.
· Partition coefficient (n-octanol/water):	not determined
· 9.2 Other information	No further relevant information available.
· Active oxygen	> 5.8 %



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# 10 Stability and reactivity

<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	
conditions to be avoided:	SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
<ul> <li>10.3 Possibility of hazardous</li> </ul>	
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	No further relevant information available.
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
· 10.6 Hazardous decomposition	
products:	Hydrocarbons, carbon dioxide and -monoxide.
· Additional information:	No hazardous decomposition products if used and stored according to specifications. Emergency procedures will vary depending on conditions. The customer should have an emergency response plan in place.

# **11 Toxicological information**

· 11.1 Info	rmation	on toxicologio	cal effects
· Acute to	oxicity:	Based on availa	able data, the classification criteria are not met.
· LD/LC5	50 value	s relevant for c	lassification:
80-43-3 c	dicumyl	peroxide	
Oral	LD50	>2000 mg/kg (ra	at)
Dermal	LD50	>2000 mg/kg (ra	at)
· Primary	irritant e	effect:	
Skin co	rrosion/	irritation	Irritating effect.
			Causes skin irritation.
<ul> <li>Serious</li> </ul>	eye dar	mage/irritation	Irritating effect.
			Causes serious eye irritation.
<ul> <li>Respirat</li> </ul>	ory or s	kin	
sensitisa	ation		Based on available data, the classification criteria are not met.
· CMR effe	ects (car	rcinogenity, mu	utagenicity and toxicity for reproduction)
· Germ ce	ell muta	genicity	Based on available data, the classification criteria are not met.
· Carcino	genicity	1	Based on available data, the classification criteria are not met.
<ul> <li>Reprodu</li> </ul>	uctive to	oxicity	Based on available data, the classification criteria are not met.
· STOT-si	ngle exp	osure	Based on available data, the classification criteria are not met.
· STOT-re	peated e	exposure	Based on available data, the classification criteria are not met.
Aspiratio	on hazar	ď	Based on available data, the classification criteria are not met.
•			

### **12 Ecological information**

· 12.1 Toxicity	
Aquatic toxicity:	
80-43-3 dicumyl peroxide	
EC50 >1000 mg/l (activa sluc	dge)
EC50 / 72h >20 mg/l (alga)	
<ul> <li>12.2 Persistence and degradability</li> </ul>	No further relevant information available.
· 12.3 Bioaccumulative potential	No further relevant information available.
<ul> <li>12.4 Mobility in soil</li> <li>Ecotoxical effects:</li> </ul>	No further relevant information available.
· Remark:	Toxic for fish
<ul> <li>Additional ecological information</li> </ul>	
· General notes:	Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.
· 12.5 Other adverse effects	No further relevant information available.

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13.1 Waste treatment methods	
· Recommendation	After diluting with a suitable inert solid material to 10%, the product must be supplied to a specia treatment (e. g. thermal utilization). Dispose of waste material in compliance with all federal, stat and local regulations.
	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
<ul> <li>Contaminated packaging:</li> </ul>	
· Recommendation	Dispose according to local regulations. Emptied container might retain product residues. Follow all warnings even after container is emptied. Do not shred containers before they are thoroughly cleaned from product residues. Do not wash residues into drains or other waterways.

### 14 Transport information

- · 14.1 UN-Number
- 14.2 Proper shipping name
- US Department of Transportation (DOT)
- · International Maritime Dangerous Goods Code (IMDG)
- · 14.3 Transport hazard class(es)
- · DOT



## · IMDG



- · Class · Label
- · 14.4 Packing group
- · DOT
- · 14.5 Environmental hazards:
- · Marine pollutant:
- 14.6 Special precautions for user

UN3110

ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE, > 52-100%) ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE, > 52-100%), MARINE POLLUTANT

5.2 Organic peroxides. 5.2

#### Ш

Product contains environmentally hazardous substances: DICUMYL PEROXIDE Yes Symbol (fish and tree)

Warning: Organic peroxides.

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# Trade name: **PEROXAN DC**

### 15 Regulatory information

Chemical Inventory Status	
The ingredients of this product are on the following chemical inventory lists.	
US. Toxic Substances Control Act	TSCA
EU. European Inventory of Existing Chemical Substances	EINECS
Canada. Domestic Substances List	DSL
Japan. Kashin-Hou Laws List	ENCS
Korea. Existing Chemicals Inventory	KECI
China. Inventory of Existing Chemical Substances	IECSC
Taiwan. National Existing Chemical Inventory	NECI
New Zealand Inventory of Chemicals	NZIoC
Australian Inventory of Chemical Substances	AICS
Philippine Inventory of Chemicals and Chemical Substances	PICCS

### · United States – Federal Regulations

SARA Title III - Section 313 Toxic Chemicals:

This product does not contain any chemical compounds with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

### · United States – State Regulations

New Jersey Right to Know

Chemical Name	CAS Number	New Jersey TS Number
Dicumyl peroxide	80-43-3	-

#### 16 Other information

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Hazards ratings: 0 = no hazard, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	Health	Fire	Reactivity Physical Hazard
NFPA	1	1	- 1
HMIS	1	1	1

**REVISION HISTORY** 

Version 2 - 11.1/12.1 toxicity data changed Version 3 - formatting change