



MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "Essentially Similar" to Form OSHA-20)

MSDS OR 613 B

DATE 3/29/83

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I. PRODUCT IDENTIFICATION			
CHEMICAL NAME AND SYNONYMS		a,a'-bis(t-butylperoxy)diisopropylbenzene supported on Burgess KE clay	
CHEMICAL FAMILY		Organic peroxide	
FORMULA		NA	
TRADE NAME AND SYNONYMS		VUL-CUP® 40KE	
REGULAR TELEPHONE NO.		302-575-5000	
EMERGENCY TELEPHONE NO.		302-995-3000*	
CAS NO.		25155-25-3 and 14504-95-1	
MOLECULAR WEIGHT		--	
II. HAZARDOUS INGREDIENTS			
MATERIAL		%	TLV-TWA VALUES ADOPTED BY ACGIH 1981
a,a'-bis(t-butylperoxy)diisopropylbenzene		40	Not established
III. PHYSICAL DATA			
BOILING POINT, 760 mm Hg	NA-Decomposes	MELTING POINT	45-55°C (113-131°F) at 25/25°C
VAPOR PRESSURE @	Negligible	BULK DENSITY	505 kg/m³ (31.4 lb/ft³)
VAPOR DENSITY (AIR=1)	NA	PERCENT VOLATILE BY VOLUME (%)	Negligible at 20°C(68°F)
SOLUBILITY IN WATER, % BY WEIGHT @	Negligible	EVAPORATION RATE (BUTYL ACETATE=1)	NA
APPEARANCE AND ODOR: White to off-white powder; acrid medicinal odor.		pH	NA
IV. FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT 129°C (265°F) SETA-CC (TEST METHOD)		AUTOIGNITION TEMPERATURE Not determined	
FLAMMABLE LIMITS IN AIR PERCENT BY VOLUME		LOWER Not determined	UPPER Not determined
EXTINGUISHING MEDIA: Water spray, dry chemical, foam, or carbon dioxide.			
SPECIAL FIRE-FIGHTING PROCEDURES: None			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable dust when finely divided and suspended in air. See SECTION VI - REACTIVITY DATA.			
NOTES: This product in fiberboard containers of up to 100 lbs. each maximum can be considered as a Class V Peroxide in accordance with Factory Mutual Loss Prevention Data Sheets 7-80. Class V Peroxides present a low or negligible fire hazard. With these peroxides combustible packing materials may present a greater hazard than the peroxide itself.			
NA = NOT APPLICABLE			
*Use this emergency number only after normal business hours and only for emergencies involving safety and health.			

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V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not established. See Section II.

EFFECTS OF OVEREXPOSURE: Mild eye, skin and respiratory irritation. Decomposition products and fumes from vulcanization and crosslinking operations may cause eye, skin, and respiratory irritation. See Hercules Bulletin ORC-304 for summary of toxicological investigations.

EMERGENCY AND FIRST AID PROCEDURES:

YES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN: Wash thoroughly with soap and running water. Wash clothing before reuse.

INHALATION: Remove to fresh air and, if indicated, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. Treat symptomatically.

VI. REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID: Stable at room temperatures. Avoid temperatures above 65°C (149°F) or contact with materials listed below. Higher temperatures or contact with listed materials promote exothermic decomposition.
UNSTABLE	
STABLE	X

INCOMPATIBILITY (MATERIALS TO AVOID): Acids and acidic-type materials such as Friedel-Crafts catalysts, strong oxidizing and reducing agents, and oxidation catalysts. Copper, copper alloys, lead and iron.

HAZARDOUS DECOMPOSITION PRODUCTS: Acetone and other ketones, alcohols, methane, and ethane. Under acidic decomposition conditions, phenols may also be formed.

Combustion products include CO, CO₂, and generation of smoke.

HAZARDOUS	MAY OCCUR	CONDITIONS TO AVOID: None
POLYMERIZATION	WILL NOT OCCUR	X

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: If material is not contaminated, scoop into clean containers for use. If contaminated, scoop into clean containers for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and Federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Nuisance dust respirator approved by NIOSH/MSHA if airborne dust is not adequately controlled. Use self-contained breathing apparatus in excessive fumes from product decomposition.

VENTILATION	LOCAL EXHAUST	--	SPECIAL	--
	MECHANICAL (GENERAL)	--	OTHER	Use adequate ventilation.
PROTECTIVE GLOVES: Chemical resistant			EYE PROTECTION: Safety glasses	
OTHER PROTECTIVE EQUIPMENT: --				



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TRADE NAME VUL-CUP 40RE

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IX. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING.

DANGER!

HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION.

VUL-CUP AND ITS DECOMPOSITION PRODUCTS MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

FLAMMABLE DUST WHEN FINELY DIVIDED AND SUSPENDED IN AIR.

Do not heat above 65°C (149°F) or permit contact with acids and acidic-type materials such as Friedel-Crafts catalysts, strong oxidizing and reducing agents, or oxidation catalysts. Higher temperatures or contact with these materials promote exothermic decomposition. Avoid contact with copper, copper alloy, lead, and iron as contact with these metals accelerates decomposition.

Avoid contact with eyes, skin, and clothing.

Avoid breathing dust or vapors of decomposition products

Use with adequate ventilation.

Wash thoroughly with soap and water after handling.

Keep away from heat, sparks, and open flame.

Clean spills promptly.

FIRST AID:

EYES - In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN - Wash thoroughly with soap and running water.
Wash clothing before reuse.

INHALATION - Remove to fresh air and, if indicated, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
Treat symptomatically.

STORAGE: Store below 35°C (95°F) in original containers in a ventilated area out of direct sunlight and away from heat sources. Storage at higher temperatures risks melting of the Vul-Cup and the formation of lumps and cakes.

SPILLS: If material is not contaminated, scoop into clean containers for use. If contaminated, scoop into clean containers for disposal. Dispose of in accordance with local, state, and Federal regulations.

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