

MATERIAL SAFETY DATA SHEET	PARKELL INC. 300A EXECUTIVE DRIVE EDGEWOOD, NY 11717 Phone: 631-249-1134, Fax: 631-249-1242	24-HOUR EMERGENCY TELEPHONE 1-800-535-5053
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PRODUCT NAME: MucoHARD™	Bonding liner	STOCK NO:	\$485
DOT HAZARD LABEL:		UN NUMBER:	UN1593
DOT/UN SHIPPING NAME:	Dichloromethane	DATE PREPARED:	04/09/07
NFPA CODES:	HEALTH - 2	FLAMMABILITY - 3	REACTIVITY - 3

HAZARDOUS COMPONENTS	CAS NUMBER	PEL	TLV
Methylene Chloride	75-09-2	25 ppm	50 ppm
Benzoyl Peroxide	94-36-0	5mg/m ³	5 mg/m ³

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS	Methylene Chloride	Benzoyl Peroxide
BOILING POINT:	39.75°C (103.5°F)	
SPECIFIC GRAVITY	1.3266	NA
VAPOR PRESSURE	349mm Hg (20°C)	NA
VAPOR DENSITY (Air = 1):	2.93	No information found.
APPEARANCE AND ODOR:	Liquid	Solid white crystals

SECTION IV - FIRE AND EXPLOSION HAZARD DATA	Methylene Chloride	Benzoyl Peroxide
FLASH POINT (TCC):	ND	NA
AUTOIGNITION TEMP.:	556°C (1033°F)	NA
UPPER FLAMMABLE LIMIT IN AIR:	12%	
LOWER FLAMMABLE LIMIT IN AIR:	23%	
EXTINGUISHER MEDIA:	Use water spray, fog, dry chemical, carbon dioxide or foam. Wear self-contained breathing apparatus, and full protective gear. Use water spray to cool containers.	
EXPLOSION HAZARD:	Fight fire from protected location.	

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)	
STABILITY:	☒ STABLE ☐ UNSTABLE
CONDITIONS TO AVOID:	Heat and ignition sources, moisture, aging and contamination.
INCOMPATIBILITY (Materials to avoid):	Avoid contact with acids, alkalis, oxidizing agents and chemically active metals.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal conditions; oxides of carbon, phosgene gas and hydrochloric acid when burned.
HAZARDOUS POLYMERIZATION:	☐ MAY OCCUR ☒ WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA	
PRIMARY ROUTE(S) OF ENTRY:	☒ EYES ☒ SKIN ☒ INHALATION ☒ INGESTION
HEALTH HAZARDS (Acute & Chronic):	Over exposure from liquid or high vapor concentrations can irritate eyes, respiratory system and cause skin rashes. Prolonged exposure can lead to headaches, nausea, drowsiness, and unconsciousness.
SIGNS & SYMPTOMS OF EXPOSURE:	Irritation of eyes and respiratory system, skin rash, headaches, nausea, drowsiness, coughing, chest pain, and unconsciousness.
CARCINOGENECITY:	Methylene Chloride is Classified by OSHA/NIOSH and Classified 2B by IARC. Cytotoxicity tests on the proprietary compound were negative.

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SECTION 1 - PRODUCT IDENTIFICATION	
PRODUCT NAME:	MucoHARD™Hard Denture Liner (cartridge material)
MSDS NO:	\$486

SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS				
HAZARDOUS COMPONENTS	CAS NUMBER	PEL	TLV	%
Uncured Dimethacrylate monomers & oligomers	N/A	NE	NE	
Benzoyl Peroxide	94-36-0	5 mg/m ³	5 mg/m ³	
Other ingredients:				
Silane treated silica fillers, initiators and stabilizers				

SECTION 3 - HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW:	
POTENTIAL HEALTH EFFECTS	
EYES:	May cause severe irritation and damage if not removed promptly.
SKIN:	Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.
INHALATION:	Prolonged or excessive inhalation may cause respiratory tract irritation.
INGESTION:	May be harmful if swallowed. Seek medical attention.
CHRONIC EFFECTS:	
SIGNS & SYMPTOMS:	
CARCINOGENECITY:	☐ No NTP? ☐ No IARC MONOGRAPHS? ☐ No OSHA?

SECTION 4 - FIRST-AID MEASURES	
EYES:	Flush with water for 15 minutes. Contact physician.
SKIN:	Wash with soap and water.
INHALATION:	Remove to fresh air. If irritation persists, contact physician.
INGESTION:	If swallowed, do not induce vomiting, drink plenty of water or milk IMMEDIATELY. Contact a physician.
NOTE TO PHYSICIANS:	

<u>SECTION 5 – FIRE-FIGHTING MEASURES</u>					
FLASH POINT (TCC):	N/A	FLAMMABLE LIMIT (air, % by vol.)	UPPER:	N/A	LOWER: N/A
FLAMMABILITY CLASSIFICATION (CFR 1910.1200):					
EXTINGUISHING MEDIA:	Chemical Foam, CO ₂ , Dry Chemical				
FIRE FIGHTING INSTRUCTIONS: Wear Self Contained Breathing Apparatus.					
UNUSUAL FIRE & EXPLOSION HAZARDS: Heat can cause polymerization with rapid release of energy.					
HAZARDOUS COMBUSTION PRODUCTS:					

SECTION 6 - ACCIDENTAL RELEASE MEASURES	
Absorb spills with inert material; keep spilled material out of sewers.	

SECTION 7 - HANDLING AND STORAGE	
HANDLING:	
STORAGE:	Store in a cool, dry place away from heat and ignitions sources.

MATERIAL SAFETY DATA SHEET (continued)		
PRODUCT NAME	MUCOHARD™ BONDING LINER	STOCK NO: S485

EMERGENCY AND FIRST AID PROCEDURES:	
INHALATION:	Remove individual to fresh air. If discomfort persists, seek immediate medical attention.
EYES:	Flush with water for 15 minutes, including under eyelids. Seek medical attention.
SKIN:	Wash with soap and water.
INGESTION:	Induce vomiting. Seek immediate medical attention.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES	
PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:	Keep in a cool, well-ventilated place, away from heat and sources of ignition. Ground all equipment containing material. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from incompatibles.
OTHER PRECAUTIONS:	NA
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Dilute with water and mop up, or absorb with an insert dry material and place in an appropriate waste disposal container. Stop leak if without risk. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike, if needed.
WASTE DISPOSAL METHODS (Consult federal, state, and local regulations):	Waste should be handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION VII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES	
RESPIRATORY PROTECTION:	Use self-contained breathing apparatus when needed.
VENTILATION:	Use local ventilation with a minimum capture velocity of 100 ft./min. (20m/min.) at point of adhesive release.
PROTECTIVE GLOVES:	Impervious.
EYE PROTECTION:	Safety glasses or goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Provide eyewash station.
WORK/HYGIENIC PRACTICES:	Wash hands before eating, drinking or smoking.

For additional non-emergency health, safety, or environmental information, telephone (800) 243-7446, or write to: Manager, Quality Assurance and Regulatory Affairs, Parkell Inc., 300A Executive Drive, Edgewood, NY 11717. The information contained herein is based on the data available to us and is believe to be correct. However, Parkell makes no warranty, express or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.	
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MATERIAL SAFETY DATA SHEET (continued)		
PRODUCT NAME	MUCOHARD™ Hard Denture Liner(cartridge material)	STOCK NO: S486

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION	
ENGINEERING CONTROLS:	Adequate ventilation to maintain PEL.
EYE/FACE PROTECTION:	Safety glasses or goggles.
SKIN PROTECTION:	Gloves - latex or other impervious rubber material.
RESPIRATORY PROTECTION:	Use in a well ventilated area.
EXPOSURE GUIDELINES:	

<u>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</u>			
APPEARANCE AND ODOR:	Colored paste with mild fruity ester-like odor.		
BOILING POINT:	N/D	SPECIFIC GRAVITY (H ₂ O = 1):	1.8
VAPOR PRESSURE:	Not Determined	PERCENT VOLATILES:	2
VAPOR DENSITY (Air = 1):	Not Determined	EVAPORATION RATE (Butyl Acetate = 1)	
SOLUBILITY IN WATER:	Insoluble	PH:	

<u>SECTION 10 – STABILITY AND REACTIVITY</u>			
STABILITY:	Stable if stored as directed	HAZARDOUS POLYMERIZATION:	Will not occur when using clinical amounts of this material.
CONDITIONS TO AVOID: Heat, aging and contamination			
INCOMPATIBILITY (Materials to avoid): Oxidizing agents, peroxides and free radical initiators.			
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.			

SECTION 11 - TOXICOLOGICAL INFORMATION	
SECTION 12 - ECOLOGICAL INFORMATION	
SECTION 13 - DISPOSABLE CONSIDERATIONS	

Unpolymerized (uncured) material may be RCRA hazardous waste. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.	
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<u>SECTION 14 – TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)</u>			
PROPER SHIPPING NAME:		N/A	
DOT HAZARD LABEL:		UN/NA NUMBER:	

<u>SECTION 15 – REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)</u>						
<u>SECTION 16 – OTHER INFORMATION</u>						
HMIS CODES:	HEALTH -	2	FLAMMABILITY -	1	REACTIVITY -	2

WORK/HYGIENIC PRACTICES:	Handle in accordance with good personal hygiene and safety practices. These practices include; avoid unnecessary exposure and wash hands before eating, drinking or smoking.		
DATE PREPARED:	04/09/07	PREPARED BY:	R. Burke

To the best of our knowledge, the information on this MSDS sheet is accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness or completeness. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is not warranted to be whether originating with the company or not.	
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