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DeBOND 65 Paint Remover

Biodegradable Paint Remover

Material Safety Data sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	DeBOND
Product Description:	Aerospace-Industrial-Architectural & General Paint Remover
Product Code:	65
MSDS Manufacturer Number:	65
Manufactured By:	Protocol Environmental Solutions Inc. #106, 16 Fawcett Road Coquitlam, BC, V3K 6X9
General Phone Number:	(604) 519-0660
General Fax Number:	(604) 519-0665

Emergency Phone Number: (604) 720-7092

MSDS Creation Date: 01/26/2008 MSDS Revision Date: 02/25/2009

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
None hazardous ingredients	N/A	30 - 60 by weight
Hydrogen Peroxide	7722-84-1	5 - 10 by weight
Benzyl Alcohol	100-51-6	10 - 30 by weight
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 5 by weight
Undisclosed/Proprietary	No data	10 - 30 by weight
Propylene glycol	57-55-6	1 - 5 by weight
Cellulose polymer	No data	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	Irritant.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalatin may cause respiratory tract irritation.
Ingestion:	May be hamful if swallowed. May cause vomiting.

Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms:	Overexposure may cause headaches and dizziness.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least15 to 20 minutes. Ensure adequate fllushing of the eyes by separating the elelids with fingrs. Get immediate medical attenion.
Skin Contact:	mmediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	240^{o} F (116^{o}C)
Extinguishing Media:	Use alcohol foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Ratings:

NFPA Flammability:	1
NFPA Health:	1
NFPA Reactivity:	1

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Product reacts and is neutralized by application so is fully biodegradeable after application. Avoid disposal of unused & unreacted product into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible sustances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or cannister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

Hydrogen peroxide:

Guideline ACGIH:	TLV-TWA 1 ppm
Guideline OSHA:	OSHA-TWA: ppm

Distillates (petroleum), hydrotreated light:

Guideline ACGIH:	TLV-TWA: 200 mg/m3 (Negligible aerosol exposures)

Notes: Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Emulsion
Color:	White
Odor:	Mild Aromatic
Flash Point:	240°F (116°C)
Boiling Point:	401°F (205°C)
Melting Point:	Not determined.
Density:	8 - 10 Lbs./gal.
Specific Gravity:	0.99
Solubility:	1.6%
Vapor Density:	Not determined.
Vapor Pressure:	< 10.34 mmHg @70°F
Percent Volatile:	Not determined.
Evaporation Rate:	<1 (butyl acetate = 1)
pH:	3 to 4 buffered
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	240°F (116°C)
VOC Content:	Material VOC: 418 gm/l (Includes Water) Coating VOC: 846 gm/l (Excludes Water)
Percent Solids by Weight:	Not determined.

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Benzyl Alcohol :

Skin:	Skin - Mammal pig Standard Draize Test. : 100% - [Moderate](RTECS) Skin - Mammal cat LDLo: 10 gm/kg - [Behavioral - tremor Behavioral - muscle weakness Gastrointestinal - changes in structure or function of salivary glands](RTECS) Skin - Rat LD50: 100 pph/90M - [Details of toxic effects not reported other than lethal dose value.](RTECS) Skin - Rabbit LD50: 2000 mg/kg - [Details of toxic effects not reported other than lethal dose value.](RTECS)
Inhalation:	Inhalation. - Rat LC50: >500 mg/m3 - [Behavioral - somnolence (general depressed activity) Behavioral - ataxia Lungs, Thorax, or Respiration - respiratory depression] (RTECS) Inhalation. - Mouse LC50: >500 mg/m3 - [Behavioral - somnolence (general depressed activity) Behavioral - ataxia Lungs, Thorax, or Respiration - respiratory depression] (RTECS)
Ingestion:	Oral - Rat LD50: 1660 mg/kg - [oral - somnolence (general depressed activity

oral - ataxia Lungs, Thorax, or rat - rat depression] (RTECS)
Oral - Mouse LD50: 1360 mg/kg - [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Oral - Mouse LD50: 1360 mg/kg - [oral - somnolence (general depressed activity) oral - ataxia Lungs, Thorax, or rat - rat depression] (RTECS)

RTECS Number: OA5504000

Distillates (petroleum), hydrotreated light

RTECS Number: WJ8925000
Eye: Eye - Rabbit; Standard Draize Test. : 500 mg/24H; Moderate. (RTECS)
Inhalation: Inhalation. - Rat LCLo: 8200 mg/m3/8H; Behavioral - tremor
Inhalation. - Rat LC: >5500 mg/m3/4H; Behavioral - somnolence (general depressed activity) (RTECS)
Ingestion: Ingestion - Rat LD: >5 gm/kg; Behavioral - somnolence (general depressed activity) (RTECS)

Propylene glycol :

RTECS Number: TY2000000
Eye: Eye - Rabbit; Standard Draize Test. : 100 mg; mild.
Eye - Rabbit; Standard Draize Test. : 500 mg/24H; mild. (RTECS)
Skin: Skin - Rabbit LD50: 20800 mg/kg; Behavioral - ataxia Behavioral - tetany Lungs, Thorax, or Respiration - respiratory depression (RTECS)
Ingestion: Ingestion - Rat LD50: 20 gm/kg; Details of toxic effects not reported other than lethal dose value.
Ingestion - Mouse LD50: 22 gm/kg; Details of toxic effects not reported other than lethal dose value. (RTECS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Non Regulated
DOT UN Number: Non Regulated

SECTION 15 - REGULATORY INFORMATION

Hydrogen peroxide :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List.Listed in the Pensylvania State Hazardous Substances List.
Canada DSL:	Listed

Benzyl Alcohol :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List.Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Distillates (petroleum), hydrotreated light:

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Propylene glycol :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Canadian Regulations.	WHMIS Hazard Class(es): D2B; E All components of this product are on the Canadian Domestic Sustances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	1
HMIS Reactivity:	1
HMIS Personal Protetion:	X
MSDS Creation Date:	10/10/2008
MSDS Revision Date:	01/26/2009
MSDS Revison Notes:	
MSDS Author:	Protocol Environmental Solutions Inc.

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