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DILUTION CONTROL PRODUCT DATA

ECLIPSE® d-LIMONENE DEGREASER

An extra-strength, all-purpose degreaser designed to remove the toughest grease build-up

FEATURES

- Concentrated for economical use
- Removes grease build-up fast
- Phosphate free formula
- Fortified with natural citrus solvents
 no petroleum solvents
- Effective on most washable surfaces



RECOMMENDED SURFACES

All washable surfaces.

PRODUCT DATA

Description:	Non-phosphate, heavy duty degreaser
Appearance:	Clear orange liquid
Fragrance:	Orange
Viscosity (Brookfield):	<5 centipoise @ 68°F (20°C)
pH (undiluted):	12.9 ± 0.5 ASTM E70
Density:	8.9 lb per gal @ 68°F 1.07 kg per liter @ 20°C
Flash Point:	183°F (84°C) ASTM D56
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Keep from open flames. Gloves and safety glasses are recommended.

ORDERING INFORMATION

Product #314D:

4 x 1.06 gallon per case (4 x 4 liters)

DIRECTIONS FOR USE: GENERAL DEGREASING

- Mix Eclipse d-Limonene Degreaser per the following dilution ratio:
 1:16 8 US oz per gallon water (313 ml per 5 liters water)
- 2. Spray and wipe. No rinse needed.

ROUTINE FLOOR MAINTENANCE:

- 1. Dust mop floor with a mop treated with Eclipse Dust Mop Treatment or with an untreated dust mop.
- Mix Eclipse d-Limonene Degreaser per the following dilution ratio:
 1:128 1 US oz per gallon water (40 ml per 5 liters water)
- 3. Damp mop or autoscrub floor with Pioneer Eclipse Light Cleaning Red Pad.
- 4. Burnish with recommended Pioneer Eclipse burnisher and pad.

DEEP SCRUB CLEANING OF FLOOR:

- 1. Dust mop floor with a mop treated with Eclipse Dust Mop Treatment or with an untreated dust mop.
- Mix Eclipse d-Limonene Degreaser per the following dilution ratio:
 1:32 4 US oz per gallon water (160 ml per 5 liters water)
- 3. Apply to surface. Allow a contact time of 5 minutes.
- 4. Scrub floor with an autoscrubber or low speed floor machine using the appropriate scrubbing pad.
- 5. Pick up the cleaning residue with the autoscrubber or wet vac and rinse the floor twice with clean, cold water. Allow to dry.
- 6. Recoat the floor with the recommended Pioneer Eclipse floor coating as desired.



ECLIPSE d-LIMONENE DEGREASER

LAST REVISION DATE: 03/22/06 MANUFACTURER: Pioneer Eclipse® Corporation Sparta, NC 28675 Phone: 1-336-372-8080 FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident **CALL CHEMTREC - Day or Night at** 1-800-424-9300 Toll Free in the Continental US 483-7616 in DISTRICT OF COLUMBIA. For calls originating outside the US: Call Collect 1-202-483-7616 Washington, DC

SECTION I: GENERAL INFORMATION

PRODUCT NAME: Eclipse® d-Limonene Degreaser **PRODUCT** #: 314D **PRODUCT TYPE:** Non-phosphate d-Limonene Degreaser PRECAUTIONS: Corrosive to skin and eyes. Keep container sealed when not in use. Keep out of reach of children. FLAMMABILITY: 1 REACTIVITY: 0 HEALTH: 2 NFPA HAZARD RATINGS 4-EXTREME 3-HIGH 2-MODERATE

SECTION II: HAZARDOUS INGREDIENTS

0-INSIGNIFICANT

1-SLIGHT

INGREDIENT: Sodium metasilicate CAS#: 6834-92-0 %: 5-10 OSHA PEL: N/L ACGIH TLV: N/L LD₅₀ SPECIES & ROUTE: 1300 mg/kg rat, oral

N/E = Not Established, N/L = Not Listed N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear orange liquid pH (undiluted): 12.9 BOILING POINT: 100°C / 212°F EVAPORATION RATE: Less than water FREEZING POINT: -3°C / 30°F VAPOR DENSITY: Greater than air VOLATILE BY WEIGHT: 85-90% VAPOR PRESSURE: N/E DENSITY: 8.9 lb per gal @ 68°F 1.07 kg per liter @ 20°C **SOLUBILITY IN WATER: Miscible**

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: 183°F (84°C) ASTM D56 **EXPLOSIVE LIMITS:** LOWER: N/A UPPER: N/A EXTINGUISHING MEDIA: Water spray, CO₂ dry chemical, alcohol-type or universal-type foams. SPECIAL FIRE FIGHTING PROCEDURES: None HAZARDOUS COMBUSTIBLE PRODUCTS: N/A UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids and oxidizing agents may produce carbon monoxide, carbon dioxide, and nitrogen oxides. HAZARDOUS DECOMPOSITION PRODUCTS: N/A **REACTIVITY CONDITIONS: None**

SECTION VI: HEALTH HAZARD DATA

EYES: May cause severe burns or possible corneal damage. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician immediately.

SKIN: Irritation, reddening or possible damage upon repeated or prolonged contact. For skin contact, wash affected areas with soap and water. Seek medical attention if irritation persists. INHALATION: Vapor or mist can cause headache, nausea and irritation of the eyes, nose, throat and lungs. For overexposure, move subject to fresh air. Seek medical attention if symptoms persist. INGESTION: May cause nausea, abdominal discomfort, vomiting, diarrhea. If ingested, drink two glasses of water or milk and do not induce vomiting. Remove by endotracheal intervention. Seek medical attention immediately.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Main hazard is due to product's severe irritant properties. Treatment should be directed at the control of

symptoms and the clinical condition of the patient. **CARCINOGEN:** Non-carcinogenic

REPRODUCTIVE EFFECTS: N/E TERATOGENICITY: N/E MUTAGENICITY: N/E THRESHOLD LIMIT VALUE: See Section II.

ECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state, and federal law or flush with large amounts of water.

LARGE SPILLS: Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

WASTE DISPOSAL: Landfill or incinerate the contaminated solids and diking material according to local, state and federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility.

SECTION VIII: SPECIAL PROTECTION

EYE PROTECTION: Wear eye protection. **RESPIRATORY PROTECTION:** None required when permissible airborne concentrations are not exceeded. In emergency, use approved positive pressure self-contained breathing device. VENTILATION: Adequate general room ventilation. OTHER PROTECTIVE EQUIPMENT: As required by employer code. Gloves and safety alasses are recommended.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Storage temperature (MAX. 60°C / 140°F) (MIN. 1°C / 34°F) OTHER PRECAUTIONS: Avoid Freezing. If frozen,

allow to return to room temperature slowly. Mix thoroughly before using.

SECTION X: ADDITIONAL INFORMATION

Neither this data sheet nor any statement contained herein arants or extends any license. expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

This MSDS has been provided to you in accordance with the OSHA HAZARD COMMUNICATION STANDARD (29CFR1910.1200).

***IMPORTANT SAFETY INFORMATION DO NOT DISCARD **PLEASE ROUTE TO COMPANY SAFETY OFFICER**

Pioneer Eclipse