

FILTER CLEANER DEGREASER

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

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|---------------------|---------------------------------|---------------------------------|-----------------|
| PRODUCT NAME | Filter Cleaner Degreaser | HMIS CODES | |
| PRODUCT CODES | FCD/1 FCD/5 FCD/20 | Health | 2 |
| CHEMICAL FAMILY | Organic/Inorganic | Flammability | 2 |
| USE | filter cleaning & degreasing | Reactivity | 0 |
| MANUFACTURER'S NAME | Greenleaf Solutions Ltd | PPI | B |
| PO Box | 64-125 | EMERGENCY TELEPHONE NO. | |
| Botany, Auckland NZ | 1703 | Poisons Information Centre | |
| DATE OF PREPARATION | 15 th December, 2009 | New Zealand | 0800-764-766 |
| | | Australia | 13-1126 |
| | | TECHNICAL SERVICE TELEPHONE NO. | |
| | | | 0061-9-272 4141 |

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 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

| % by WT | CAS No. | INGREDIENT | UNITS |
|---------|-------------|------------------------------|-------|
| -- | 961788-90-7 | lauryl dimethyl amine oxide | |
| | | ACGIH TLV | N/D |
| | | OSHA PEL | N/D |
| -- | 57018-52-7 | Polylyene Glycol Butyl Ether | |
| | | ACGIH TLV | N/D |
| | | OSHA PEL | N/D |
| -- | 6834-92-0 | Sodium Metasilicate | |
| | | ACGIH TLV | N/D |
| | | OSHA PEL | N/D |
| -- | 68647-72-3 | Citrus Terpene d'limonene | |
| | | ACGIH TLV | N/D |
| | | OSHA PEL | N/D |

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 Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation, and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

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Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

| | | |
|---|-----|-----|
| FLASH POINT | LEL | UEL |
| 145 F(63 C) SETA CC, Negative Flame Extension | N/D | N/D |

EXTINGUISHING MEDIA
Foam, dry chemical, CO2, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Foam or water can cause frothing. Heat may build up pressure and rupture containers.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Shake well before using. Keep away from heat, sparks and open flames.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during soldering operations until fumes have dissipated.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: Explosion proof

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant coveralls

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

 BOILING POINT: >212 F (100 C) @ 760mm Hg
 SPECIFIC GRAVITY (H2O = 1): 1.04
 VAPOR PRESSURE (mm Hg): N/D
 MELTING POINT: N/A
 VAPOR DENSITY (AIR = 1): <1
 EVAPORATION RATE (ETHYL ACETATE = 1): >1
 APPEARANCE/ODOR: Clear orange Liquid / citrus Odour
 SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

 STABILITY: Stable
 CONDITIONS TO AVOID: None
 INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases.
 HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.
 HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

 CHRONIC HEALTH HAZARDS
 No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

Ingredient Name

 lauryl dimethyl amine oxide
 Oral-Rat LD50:4.3 mg/kg
 Inhalation-Rat LC50:N/D
 Polylyene Glycol Butyl Ether
 Oral-Rat LD50:N/D
 Inhalation-Rat LC50:N/D
 Sodium Metasilicate
 Oral-Rat LD50:1153 mg/kg
 Inhalation-Rat LC50:N/D

Section 12 -- Ecological Information

 ECOLOGICAL DATA

Ingredient Name

 lauryl dimethyl amine oxide
 Food Chain Concentration Potential N/D
 WATERFOWL TOXICITY N/D
 BOD N/D
 AQUATIC TOXICITY N/D
 Polylyene Glycol Butyl Ether
 Food Chain Concentration Potential N/D
 WATERFOWL TOXICITY N/D
 BOD N/D
 AQUATIC TOXICITY N/D
 Sodium Metasilicate
 Food Chain Concentration Potential N/D
 WATERFOWL TOXICITY N/D
 BOD N/D
 AQUATIC TOXICITY N/D

Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated liquid waste
 Disposal Method: Dispose of all liquid waste in accordance with all local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-Regulated
 OCEAN (IMDG): Non-Regulated
 AIR (IATA): Non-Regulated
 WHMIS (CANADA): N/A

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
 Ingredient Name

| | | |
|-----------------------------|----------------|-----|
| lauryl dimethyl amine oxide | SARA 313 | No |
| | TSCA Inventory | Yes |
| | CERCLA RQ | N/A |
| | RCRA Code | N/A |
| Polylene Glycol Butyl Ether | SARA 313 | No |
| | TSCA Inventory | Yes |
| | CERCLA RQ | N/A |
| | RCRA Code | N/A |
| Sodium Metasilicate | SARA 313 | No |
| | TSCA Inventory | Yes |
| | CERCLA RQ | N/A |
| | RCRA Code | N/A |

Section 16 -- OTHER INFORMATION

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.