

MATERIAL SAFETY DATA SHEET

Date Prepared: 9-14-04

(Prepared According to 29CFR 1910.1200)

Product Code: 101

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Company: LifeTime Solutions
Address: 3330 Moffat Rd Newcastle Ont. Canada
Product Name: LifeTime Solutions Generic Cleaner MSDS
Emergency Phone: 888-578-9600
Product Type: BIOBASED cleaner/ degreaser

SECTION 2: INGREDIENTS

CHEMICAL NAME N/A **FORMULA: Proprietary**

COMPLIES WITH OSHA 29 CFR - 1910.1200 SECTION (i) "TRADE SECRETS",

CONTAINS NO HAZARDOUS COMPONENTS UNDER CURRENT OSHA DEFINITIONS.

100% BIOBASED Product ingredients: alkanolamines, amino acids, corn oil, nonionic surfactants, and plant based fatty acids, organic alcohol in base of colloidal micelles.

NOTE: All ingredients contained are approved as Organic Materials Review Institute for organic crop production.

SECTION 3: PHYSICAL DATA / CHEMICAL PROPERTIES

BOILING POINT 214.40 F FREEZING POINT 28F SPECIFIC GRAVITY 1.001 VAPOR PRESSURE *NE
(H₂O = 1) VAPOR DENSITY *NE SOLUBILITY Complete
(Air = 1) WATER, % by wt. *NE EVAPORATION RATE *NE
APPEARANCE AND ODOR Slightly Viscous, Clear, Faint Odor. PH 9.7

(Certificate of ANALYSIS completed on 6-23-03 1 to 15 blend)Thornton Lab

METHOD	PARAMETER	RESULT	UNITS
EPA 160.4	Total Solids	0.37%	%
AOAC 978.02	Total Nitrogen (N)	0.033	%
AOAC 920.03	Nitrogen, Ammoniacal (N)	0.014	%
AOAC 958.01	Phosphorus (P)	< 0.1	%
ATOMIC Absorption	Iron	< 2.5	mg/Kg
	Magnesium (Mg)	< 2.5	mg/Kg
	Potassium (K)	< 2.5	mg/Kg
	Sodium (Na)	13	mg/L

Radiocarbon C-14 5/10/04 USDA approved testing lab

Meets USDA proposed requirements for product tested at 84 (range 83-91; N=8) USDA Minimum BIOBASED contact n=5

Clean Air Solvent

SCAQMD Method 313-91 No VOHAP, ODC or GWC detected.

Reactivity of the compound detected is below the MIR value of Toluene VOC is estimated to be 174 g/L, VOC composite partial est. < 1mm Hg (1:7) dilution VOC is 20.0 g/L meets CAS criteria.

SECTION 4: FIRST AID MEASURES

SWALLOWING: No harmful effects expected. INHALATION: No emergency care anticipated.
SKIN: Rinse with water. EYES: Flush with water.

NOTES TO PHYSICIAN

Long term, widespread usage and review of ingredients indicate this product to be generally regarded as a safe (GRAS) product.

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

SECTION 5: FIRE AND EXPOSION HAZARD DATA

FLASH POINT: NE >200.0 F
FLAMMABLE LIMITS: LOWER N/A UPPER N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A UNUSUAL FIRE & EXPLOSION HAZARD N/A

SECTION 6: HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING: No evidence of adverse effects. EYE CONTACT: No evidence of adverse effects.
SKIN ABSORPTION: No evidence of adverse effects. INHALATION: No evidence of adverse effects.
SKIN CONTACT: No evidence of adverse effects. OTHER HEALTH HAZARDS: None currently known.
AFFECTS OF REPEATED EXPOSURE: No evidence of adverse effects.

Carcinogens and Toxins:

Does not contain any known or suspected human carcinogens in concentrations equal to or greater than .01% (by weight) as defined in: Code of Federal Regulations 29 CFR 1910.1000 series, OSHA).

SECTION 7: HANDLING AND STORAGE

Safe handling procedures: None
Storage requirements: Store in a cool, well-ventilated area. Avoid low temperatures.

SECTION 8: STABILITY AND REACTIVITY

Stability and reactivity: Stable at room temperature, in normal handling and storage conditions.
Polymerisation: Hazardous polymerisation will not occur.
Conditions to avoid: None reported
Materials to avoid: None reported
Hazardous decomposition products: None reported

SECTION 9: TOXICOLOGICAL INFORMATION

Exposure limits: None Available (N/Av) for the product. For more details, refer to Section 3.
Carcinogenicity: **No ingredient listed by IARC, ACGIH, NTP and OSHA as a carcinogen.**
Teratogenicity, mutagenicity, other reproductive effects: N/Av
Skin sensitization: N/Av
Respiratory tract sensitization: N/Av
Synergistic materials: N/Av

SECTION 10: ECOLOGICAL INFORMATION

Environmental effects: N/Av
Important environmental characteristics: N/Av
Aquatic toxicity: N/Av
Chemicals contained: DOES NOT contain Class I or Class II Ozone depleting substances as defined by 40 CFR 82 equal or greater 1.0 % Wt.

SECTION 11: DISPOSAL CONSIDERATIONS

Personal precautions: Evacuate the spill area as floor may be slippery. Use care to prevent falling.
Spill response/Cleanup: Flush area with water.
Environmental precautions: Dispose of as per local, state and federal regulations.

Chemicals contained are not listed as Hazardous waste in accordance with 40 CFR 261
Volatile Organic Compounds (VOC's) VOC levels of DDC by weight of the cleaner do not exceed 10% in accordance with 40 CFR Parts 9 and 59. Est. tested amount our product < 1mmHg .

SECTION 12: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG): Not Regulated

SECTION 13: REGULATORY INFORMATION / AGENCY APPROVALS

- 1) Passed USDA contracted signal approved testing lab for BIOBASED products 5/10/04 N=8 for new proposed requirements. (Iowa State University) accurate to within +- 3%
- 2) Passed Federal Standard Biodegradability (28 day shake Flask Ready test 11/12/1997 84.6 %) (SGS U.S. Testing Company)
- 3) Approved for cleaning interiors of Commercial Transport Aircraft (Boeing D6-7127 Revision M (4/11/2003) Passed 11.3.1 Sandwich corrosion conforms, 11.3.2 Immersion Corrosion Test conforms, 11.3.3 Rubber Test conforms, 11.3.4 Sealant test conforms, 11.3.5 Painted Surface test conforms, 11.3.6 Tedlar surface test conforms, 11.3.7 Vinyl surface test conforms, 11.3.8 Fabric & Carpet test N/A, 11.3.9 Leather & Naugahyde test N/A, 11.3.10 Flash Point test conforms, 11.3.11 Polycarbonate Cracking test conforms. (SMI, Inc 3/15/04).
- 4) Authorized by Naval Sea System Command for use onboard U.S. Navy Surface ships Only Pub No. S64480-A4-CAT-010 as of 05 August 2003 or Chemical cleaning products.

Government Hazard Rating

LifeTime Solutions Rating

4 = EXTREME	FIRE	0
3 = HIGH	REACTIVITY	0
2 = MODERATE	TOXICITY	0
1 = SLIGHT	SPECIAL	0
0 = INSIGNIFICANT		

Contains no ingredients listed on OSHA hazardous material list, however, use normal precautions while diluting from concentrate.

SECTION 14: OTHER INFORMATION

The above, set forth in technical data supplied to the Manufacturer, has been edited to avoid disclosure of proprietary information and to avoid redundancy. All inquires concerning the content of this document should be directed to the Distributor or Manufacturer.

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists	CAS	Chemical Abstract Service
IAR	International Agency for Research on Cancer	CFR	Code of Federal Regulation
NIOSH	National Institute for Occupational Safety and Health	VOC's	Volatile Organic Cleaner
NTP	National Toxicology Program (U.S.A.)	OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit	STEL	Short-term Exposure Limit
TLV	Threshold Limit Value	TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System	N/A	Not Applicable
NE	None Established	N/Av	Not Available