

**SECTION 1 - PRODUCT IDENTIFICATION**

**Product identifier/Trade name:** L EXTRACTOR  
**Product code/Internal Identification:** N/Av  
**Product use/Description:** Eliminator of sticky residues.  
**Product chemical name:** N/Av  
**Chemical family:** N/Av  
**MSDS preparation/review date:** March 11, 2014  
**Supplier identifier:** AVL Recherches Inc.  
 383 Principale St-Amable Québec J0L1N0  
**Manufacturer identifier:** Same as supplier  
**Emergency phone number:** 450-922-6760 or CANUTEC 613-996-6666  
**WHMIS Classification:** D2B – Toxic material with other effects.

**SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS**

| Hazardous Ingredients         | CAS #      | % (weight) | LD <sub>50</sub> (route, species)                      | LC <sub>50</sub> (species) |
|-------------------------------|------------|------------|--|----------------------------|
| D-Limonene                    | 5989-27-5  | 5-10       | 4400 mg/kg (oral, rat)                                 | N/Av                       |
| Methyl esters of soybean oil  | 67784-80-9 | 15-40      | N/Av   | N/Av                       |
| Alcohol, ethoxylated, C8-C10  | 71060-57-6 | 5-10       | 2700 mg/kg (oral, rat)                                 | N/Av                       |
| Naphtha, heavy hydrotreated   | 64742-48-9 | 10-30      | N/Av   | N/Av                       |
| Coconut diethanolamide        | 68603-42-9 | 7-13       | 12400 µL/kg (oral, rat)                                | N/Av                       |
| Propylene glycol methyl ether | 107-98-2   | 1-5        | 4016 mg/kg (oral, rat)<br>12930 mg/kg (dermal, rabbit) | N/Av                       |

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview**

CAUTION! Causes eye and skin irritation.

**\*POTENTIAL HEALTH EFFECTS\***

**Primary entry route(s):** Skin contact, skin absorption, eye contact, ingestion and inhalation.

**Effects of short-term (acute) exposure:**

**Inhalation:** May cause moderate irritation to the respiratory tract.

**Skin:** Causes severe skin irritation.

**Eye:** Causes severe irritation.

**Ingestion:** May result in vomiting and diarrhea. Toxic. May be fatal if ingested. Possible aspiration hazard.

**Effects of long-term (chronic) exposure:** Refer to Section 11, Toxicological Information, for further information.

**Other important hazards:** Refer to Section 11, Toxicological Information, for further information.

**SECTION 4 - FIRST AID MEASURES**

**Inhalation:**

Remove source of contamination or have victim move to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.

**Skin contact:**

Flush contaminated area with lukewarm, gently flowing water for at least 20 minutes. Immediately transport victim to an emergency care facility. Discard all contaminated clothing.

**Eye contact:**

Immediately flush the contaminated eye(s) with gently flowing lukewarm water for at least 20 minutes while holding the eyelid(s) open. Immediately transport victim to an emergency care facility.

**Ingestion:**

NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical attention immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:** This product does burn under normal conditions when the temperature exceeds the flash point.

**Flash point (Method):** >100 °C (Closed cup)

**Lower flammable limit (% by volume):** N/Av

**Upper flammable limit (% by volume):** N/Av

**Sensitivity to mechanical impact:** N/Av

**Sensitivity to static discharge:** N/Av

**Auto-ignition temperature:** N/Av

**Suitable extinguishing media:** Carbon dioxide, dry chemical powder and appropriate foam.

**Special fire-fighting procedures/equipment:**

During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

**Hazardous combustion products:** Carbon oxides and other irritating fumes and smoke.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

**Spill response/Cleanup:**

Ventilate area of release. Eliminate all sources of ignition. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Environmental precautions:**

Confine spill, preventing it from entering sewer lines or waterways. Dispose of as per local, state and federal regulations.

## SECTION 7 - HANDLING AND STORAGE

**Safe handling procedures:**

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Do not use near welding operations, flames or hot surfaces. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of vapours or mists. Keep away from incompatible materials such as strong oxidizing materials. Keep containers closed when not in use. Empty containers are always dangerous. Assume that empty containers contain residues which are hazardous.

**Storage requirements:**

Store in a cool, dry, well-ventilated area, away from heat, sunlight and ignition sources. Store away from incompatible materials. Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Keep away from children.

**Incompatible materials:**

STRONG OXIDIZING MATERIALS, strong acids, strong bases...

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure limits:** There is no available data for the product. See below for individual ingredient exposure limits.

| Ingredient                    | OSHA PEL |      | ACGIH TLV |         |
|-------------------------------|----------|------|-----------|---------|
|                               | TWA      | STEL | TWA       | STEL    |
| D-Limonene                    | N/Av     | N/Av | N/Av      | N/Av    |
| Methyl esters of soybean oil  | N/Av     | N/Av | N/Av      | N/Av    |
| Alcohol, ethoxylated, C8-C10  | N/Av     | N/Av | N/Av      | N/Av    |
| Naphtha, heavy hydrotreated   | N/Av     | N/Av | N/Av      | N/Av    |
| Coconut diethanolamide        | N/Av     | N/Av | N/Av      | N/Av    |
| Propylene glycol methyl ether | N/Av     | N/Av | 100 ppm   | 150 ppm |

**Engineering controls:**

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits.

**Respiratory Protection:**

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown.

**Protective Clothing/Equipment:**

Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**General Hygiene Considerations:**

Avoid generating high concentrations of vapours or mists. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

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| <b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b> |
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|---|-------------------------------------|----------------------------------|---------|
| <b>Physical state, colour and odour:</b>        | Yellow liquid. Citrus fruits odour. |                                  |         |
| <b>Odour threshold:</b>                         | N/Av                                |                                  |         |
| <b>pH:</b>                                      | N/Av                                | <b>Boiling point:</b>            | N/Av    |
| <b>Melting/freezing point:</b>                  | N/Av                                | <b>Vapour pressure (@ 20°C):</b> | N/Av    |
| <b>Coefficient of oil/water distribution:</b>   | N/Av                                | <b>Solubility in water:</b>      | Soluble |
| <b>Specific gravity or density (water = 1):</b> | N/Av                                | <b>Vapour density (Air = 1):</b> | N/Av    |
| <b>Evaporation rate (n-Butyl acetate = 1):</b>  | N/Av                                | <b>% volatile by volume:</b>     | N/Av    |

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| <b>SECTION 10 - REACTIVITY AND STABILITY DATA</b> |
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| <b>Stability and reactivity:</b>         | Stable under the recommended storage and handling conditions prescribed. |
| <b>Polymerization:</b>                   | Hazardous polymerization will not occur.                                 |
| <b>Conditions to avoid:</b>              | Avoid heat, sparks, open flames or any other ignition sources.           |
| <b>Materials to avoid:</b>               | Incompatible materials (see Section 7).                                  |
| <b>Hazardous decomposition products:</b> | Refer to 'Hazardous combustion products', Section 5.                     |

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| <b>SECTION 11 - TOXICOLOGICAL INFORMATION</b> |
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**Toxicological data:**

There is no available data for the product itself, only for the ingredients. **For more details, refer to Section 2.**

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| <b>Carcinogenicity:</b>  | No ingredient listed by IARC, ACGIH, NTP or OSHA as a carcinogen. |
| <b>Teratogenicity, mutagenicity, other reproductive effects:</b> | N/Av  |
| <b>Skin sensitization:</b>                                       | May cause allergies.  |
| <b>Respiratory tract sensitization:</b>                          | N/Av  |
| <b>Conditions aggravated by exposure:</b>                        | N/Av  |
| <b>Synergistic materials:</b>                                    | N/Av  |

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| <b>SECTION 12 - ECOLOGICAL INFORMATION</b> |
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| <b>Environmental effects:</b>                   | There is no available data on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. |
| <b>Important environmental characteristics:</b> | N/Av   |
| <b>Aquatic toxicity:</b>                        | N/Av   |

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| <b>SECTION 13 - WASTE DISPOSAL</b> |
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**Handling and storage conditions for disposal:**

Store material for disposal as indicated in Handling and Storage (Section 7).

**Methods of disposal:**

Review federal, provincial and local government requirements prior to disposal.

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| <b>SECTION 14 - TRANSPORTATION INFORMATION</b> |
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**Transportation of Dangerous Goods Regulations (TDGR) :**

|                     |               |
|---------------------|---------------|
| TDG Classification: | NOT REGULATED |
| Special case:       | N/Av          |

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| <b>SECTION 15 - REGULATORY INFORMATION</b> |
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**WHMIS information:**

Product is regulated according to the Controlled Product Regulations (CPR) in Canada. Refer to Section 1 for the appropriate WHMIS classification. *This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.*

**Canadian Environmental Protection Act (CEPA) information:** The ingredients in this product are listed on the DSL.

**Hazardous Materials Identification System (HMIS):**

HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 0      PERSONAL PROTECTION: See Section 8.  
HAZARD SCALE: \* = Chronic hazard    0 = Minimal    1 = Slight    2 = Moderate    3 = Serious    4 = Severe

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| <b>SECTION 16 - OTHER INFORMATION</b> |
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**Prepared by:** NSS ENTREPRISE INC. for AVL Recherches Inc.

**Telephone number:** Telephone 450-922-6760

**References:**

1. Material Safety Data Sheets from manufacturer/supplier.
2. CSST, Répertoire Toxicologique, Les produits, 2014.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2014.

**Abbreviations:**

|       |   |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIHA  | American Industrial Hygiene Association                   |
| CAS   | Chemical Abstract Service                                 |
| DSL   | Domestic Substance List                                   |
| IARC  | International Agency for Research on Cancer               |
| LC    | Lethal concentration                                      |
| LD    | Lethal Dosage   |
| N/Ap  | Not applicable  |
| N/Av  | Not available   |
| NIOSH | National Institute for Occupational Safety and Health     |
| 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                                     |
| TSCA  | Toxic Substances Control Act                              |
| TWA   | Time Weighted Average                                     |
| WEEL  | Workplace Environmental Exposure Level                    |
| WHMIS | Workplace Hazardous Materials Information System          |

**Notice to users of this product :**

This data is offered in good faith as typical values and not as a product specification. The AVL Recherches Inc. company does not accept responsibility on injuries caused to users of this product if safety measures are not in accordance with indications of the material safety data sheet. Also, AVL Recherches Inc. does not accept responsibility on injuries caused to anybody who use this product in a non-compliant or incorrect manner, even if safety measures used were reasonable. Finally, buyers and third party accept the risk resulting from the use of this product.

**End of the MSDS**