

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Filtration Line Remover  
Product Number: C178-QT, C178-CS  
CAS Number: Blend

HARRIS RESEARCH, INC.

### Company Identification

Harris Research, Inc.  
1530 North 1000 West  
Logan, UT 84321 USA  
1-435-755-0099 (For product information)  
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
D-LIMONENE	5.0 - 10.0 %	5989-27-5
WATER	85.0 - 94.0 %	7732-18-5
STYRENE MALEIC ANHYDRIDE RESIN, CUMENE END CAPPED	1.0 - 5.0 %	52720-34-0

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

## 3. HAZARDS IDENTIFICATION

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*****      EMERGENCY OVERVIEW      *****
*                                                                              *
*                                                                              *
*                                CAUTION                                     *
*                                                                              *
*                                *                                          *
*    May be irritating to eyes.                                           *
*                                                                              *
*****

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(section 3 continued)

**NFPA Rating -**                      **Health: 1**  
   **Flammability: 1**  
   **Reactivity: 0**  
   **Special Hazard: None**

**POTENTIAL HEALTH EFFECTS**

**EYE:**

Moderately irritating to the eyes.

**SKIN:**

Prolonged or repeated contact may result in skin irritation and dermatitis.

**INHALATION:**

Prolonged or excessive inhalation may cause respiratory tract irritation.

**INGESTION:**

Ingestion of small amounts is not expected to cause harmful effects.  
Ingestion of large amounts may be harmful.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Dizziness, visual impairment, nausea, respiratory failure, muscular incoordination, and narcosis.

**CARCINOGENICITY INFORMATION:**

NTP: None      IARC: No      OSHA: No.

**TARGET ORGAN:**

Target Organs include: Liver and Kidneys.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes. Get medical attention.

**SKIN CONTACT FIRST AID:**

Wash skin with soap and water.

**INHALATION FIRST AID:**

Remove to fresh air.

**INGESTION FIRST AID:**

Get medical attention.



## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

PMCC Flash Point: > 93.3 C (> 199.9 F)  
Autoignition Temperature: N/A

### FLAMMABLE LIMITS IN AIR

LEL: N/A  
UEL: N/A

### EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

### COMBUSTION PRODUCTS:

Carbon monoxide and carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

### SAFEGUARDS (PERSONNEL):

Protect skin and eyes from exposure.

### SMALL SPILLS PROCEDURE:

Clean up area with absorbent material.

## 7. HANDLING AND STORAGE

### HANDLING (PERSONNEL):

Use with adequate ventilation. Avoid prolonged or repeated contact with skin.

### STORAGE PRECAUTIONS:

Store in a cool dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EYE / FACE PROTECTION REQUIREMENTS:

Where contact with this material is likely, eye protection is recommended.

### SKIN PROTECTION REQUIREMENTS:

Where contact is likely, wear nitrile gloves.

### RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required.



(section 8 continued)

**EXPOSURE GUIDELINES:**  
No Information Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: Milky white  
ODOR .....: Orange aroma  
BOILING POINT .....: 100 C  
SOLUBILITY IN WATER ...: Dispersible  
SPECIFIC GRAVITY .....: 1 (Water = 1)  
PH .....: 8 - 9  
% VOLATILES .....: >90 %

## 10. STABILITY AND REACTIVITY

**STABILITY:**  
Stable.

**POLYMERIZATION:**  
Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**  
Avoid contact with strong oxidizing agents.

**DECOMPOSITION:**  
In the case of fire, carbon dioxide and carbon monoxide may be produced.

## 11. TOXICOLOGICAL INFORMATION

### d-Limonene

Test Code: Oral LD50  
Species: Rat  
Results: >5000 mg/kg

Test Code: Dermal LD50  
Species: Rabbit  
Results: >5000 mg/kg

### Styrene maleic anhydride resin, cumene end capped

Test Code: LD50  
Species: Rats  
Results: 350 mg/kg.



**12. ECOLOGICAL INFORMATION**

**Styrene maleic anhydride resin, cumene end capped**

Test Code: EC50  
Species: Daphnia magna  
Results: 73.59-1990 mg/L 24H

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**14. TRANSPORTATION INFORMATION**

PRODUCT LABEL .....: Filtration Line Remover  
D.O.T. SHIPPING NAME ...: Not regulated

**MISCELLANEOUS:**

IATA Shipping Classification: Not Regulated.  
IMO/IMDG Shipping Classification: Not Regulated.

**15. REGULATORY INFORMATION**

**REGULATORY LISTS SEARCHED:**

01 = SARA TITLE III SECTION 302	02 = SARA Title III Section 313
03 = RCRA HAZARDOUS WASTE CODES	04 = CERCLA Hazardous Substances
05 = CLEAN AIR ACT	06 = California Prop. 65

**EEC Symbols and Indications of Danger:**

None

**S-Phrases:**

S36/39 - Wear suitable protective clothing and eye/face protection.  
S24/25 - Avoid contact with skin and eyes.

**WHMIS Hazard Symbols:**

None

**Canadian Disclosure List**

d-Limonene (5989-27-5)



(section 15 continued)

**MISCELLANEOUS INFORMATION:**

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

**16. OTHER INFORMATION**

PREPARED BY .....: Edward Durrant  
APPROVED BY .....: Dale Jensen  
TITLE .....: Product Development Manager  
APPROVAL DATE .....: February 13, 2009  
SUPERCEDES DATE ...: April 5, 2006  
RTN NUMBER .....: 00000085 (Official Copy)

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**END OF MSDS**  
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