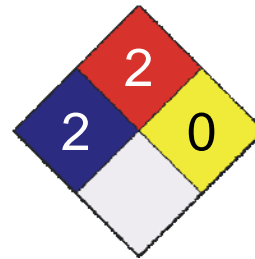


## 1. Product and Company Identification

**Product Name** Degreasing Solvent Low VOC (4162-17)  
**CAS #** Mixture  
**Product use** Degreaser  
**Manufacturer** Nu-Calgon  
 2008 Altom Court  
 St. Louis, MO 63146 US  
 Phone: 314-469-7000 / 800-554-5499  
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	2
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency overview** WARNING  
 EYE AND SKIN IRRITANT.  
 Combustible liquid. Keep away from heat and flame. May cause chronic toxic effects.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** Causes irritation or blurred vision.

**Skin** May cause irritation.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

**Target organs** Eyes. Kidney. Liver. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated overexposure can cause liver and kidney damage.  
 Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Distillates (petroleum), light hydrotreated	64742-47-8	40 - 70
P-Chlorotoluene	106-43-4	3 - 7
Benzene, 1-chloro-4(trifluoromethyl)-	98-56-6	10 - 30
O-Chlorotoluene	95-49-8	10 - 30

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion**

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

**Notes to physician**

Symptoms may be delayed.

**General advice**

Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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**Flammable properties**

Combustible by WHMIS/OSHA criteria.

**Extinguishing media****Suitable extinguishing media**

Dry chemical. Water spray. Foam.

**Unsuitable extinguishing media**

Not available

**Protection of firefighters****Specific hazards arising from the chemical**

Not available

**Protective equipment for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**

May include and are not limited to: Oxides of carbon. Hydrogen chloride. Hydrogen fluoride.

**Explosion data****Sensitivity to mechanical impact**

Not available

**Sensitivity to static discharge**

Not available

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## 6. Accidental Release Measures

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**Personal precautions**

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Methods for containment**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Methods for cleaning up**

Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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## 7. Handling and Storage

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**Handling**

Use good industrial hygiene practices in handling this material. When using do not eat or drink.

**Storage**

Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Exposure limits

Ingredient(s)	Exposure Limits
Benzene, 1-chloro-4(trifluoromethyl)-	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Distillates (petroleum), light hydrotreated	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
O-Chlorotoluene	<b>ACGIH-TLV</b> TWA: 50 ppm <b>OSHA-PEL</b> Not established
P-Chlorotoluene	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses with side shields.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

Appearance	Clear.
Color	Not available
Form	Liquid
Odor	Solvent
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	105 °F (40.55 °C) Pensky-Martens Closed Cup
Pour point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Not available

Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

## 10. Stability and Reactivity

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Hydrogen chloride. Hydrogen fluoride.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Benzene, 1-chloro-4(trifluoromethyl)-	33 mg/l/4h rat; 20000 Mg/m3/4H mouse
Distillates (petroleum), light hydrotreated	5.2 mg/l/4h rat
O-Chlorotoluene	38 mg/l/4h rat
P-Chlorotoluene	24040 Mg/m3/4H mouse

### Component analysis - Oral LD50

Ingredient(s)	LD50
Benzene, 1-chloro-4(trifluoromethyl)-	13000 mg/kg rat; 11500 mg/kg mouse
Distillates (petroleum), light hydrotreated	5000 mg/kg rat
O-Chlorotoluene	1659 mg/kg rat
P-Chlorotoluene	1920 mg/kg rat; 1900 mg/kg mouse; 3750 mg/kg guinea pig

### Effects of acute exposure

<b>Eye</b>	Causes irritation or blurred vision.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Hazardous by WHMIS/OSHA criteria. Prolonged or repeated overexposure can cause liver and kidney damage.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Synergistic Materials</b>	Not available

## 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Ecotoxicity - Freshwater Fish Species Data

Benzene, 1-chloro-4(trifluoromethyl)-Distillates (petroleum), light hydrotreated	98-56-6 64742-47-8	48 Hr LC50 Lepomis macrochirus: 11.5-15.8 mg/L [static] 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static]
O-Chlorotoluene	95-49-8	96 Hr LC50 Brachydanio rerio: 70-100 mg/L [static]
P-Chlorotoluene	106-43-4	96 Hr LC50 Brachydanio rerio: 24 mg/L [static]

### Ecotoxicity - Water Flea Data

Benzene, 1-chloro-4(trifluoromethyl)-Distillates (petroleum), light hydrotreated	98-56-6 64742-47-8	48 Hr EC50 Daphnia magna: 3.68 mg/L 96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L
O-Chlorotoluene	95-49-8	24 Hr EC50 Daphnia magna: 20 mg/L
P-Chlorotoluene	106-43-4	48 Hr EC50 Daphnia magna: 3.57 mg/L

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

## 13. Disposal Considerations

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

### U.S. Department of Transportation (DOT)

#### Basic shipping requirements:

<b>Proper shipping name</b>	Flammable liquids, n.o.s. (DISTILLATES (PETROLEUM), LIGHT HYDROTREATED)
<b>Hazard class</b>	3
<b>UN number</b>	UN1993
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>Special provisions</b>	B1, B52, IB3, T4, TP1, TP29
<b>Packaging exceptions</b>	150
<b>ERG number</b>	128



## Transportation of Dangerous Goods (TDG - Canada)

### Basic shipping requirements:

<b>Proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (DISTILLATES (PETROLEUM), LIGHT HYDROTREATED)
<b>Hazard class</b>	3
<b>UN number</b>	UN1993
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>Special provisions</b>	16



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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Canada - WHMIS - Ingredient Disclosure List

O-Chlorotoluene 95-49-8 1 %

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**WHMIS status** Controlled

**WHMIS classification** Class B - Division 3 - Combustible Liquid, Class D - Division 2B

**WHMIS labeling**



**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

O-Chlorotoluene 95-49-8 Present

**U.S. - Massachusetts - Right To Know List**

O-Chlorotoluene 95-49-8 Present

P-Chlorotoluene 106-43-4 Present

**U.S. - Minnesota - Hazardous Substance List**

O-Chlorotoluene 95-49-8 Skin

**U.S. - New Jersey - Right to Know Hazardous Substance List**

O-Chlorotoluene 95-49-8 sn 1425

**U.S. - Pennsylvania - RTK (Right to Know) List**

O-Chlorotoluene 95-49-8 Present

P-Chlorotoluene 106-43-4 Present

**U.S. - Rhode Island - Hazardous Substance List**

O-Chlorotoluene 95-49-8 Toxic (skin)

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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01-Jun-2013

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.