Material Safety Data Sheet

Material Name: Wax & Grease Remover

Manufacturers Information
Gearhead Products, Inc.
115 West Washington Street
Suite 700 South
Indianapolis, IN 46204

Product Use: Wax & Grease Remover

Emergency Overview
Liquid and vapors are flammable. Vapor accumulation can flash or explode when ignited. This product is irritating to the eyes and respiratory system and may cause slight skin irritation. This product is harmful by inhalation and if it is swallowed.

This material contains a component that may cause adverse developmental or reproductive effects. See Section 11: Toxicological Information.

Potential Health Effects: Eyes
This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing.

Potential Health Effects: Skin
May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Potential Health Effects: Ingestion
This product is harmful if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Potential Health Effects: Inhalation
This product may be harmful by inhalation. Inhalation of vapors or mists of the product may be irritating to the respiratory system. Inhalation of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

HMIS Ratings: Health: 2*  Fire: 3  Physical Hazard: 0  Pers. Prot.: Goggles, gloves, apron, respirator
Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe  * = Chronic hazard

Component Information/Information on Non-Hazardous Components
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and the Canadian Controlled Product Regulations.

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contacts if present and easy to do. Get medical attention or advice.
First Aid: Skin  
In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water for at least 15 minutes. Wash contaminated clothing before reuse. If irritation persists, get medical attention.

First Aid: Ingestion  
If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

First Aid: Inhalation  
If inhaled, immediately remove the affected person to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, have qualified personnel apply artificial respiration and seek immediate medical attention.

First Aid: Notes to Physician  
If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards  
See Section 9 for Flammability Properties.  
Fire and Explosion hazards are DANGEROUS when this material is exposed to heat or flame. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Product may release hazardous combustion products.

Hazardous Combustion Products  
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media  
Dry chemical, foam, carbon dioxide, water spray. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity. Use water to cool fire-exposed containers and to protect personnel.

Fire Fighting Equipment/Instructions  
Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products. Cool exposed containers with water spray.

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures  
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Stop the flow of material, if this is without risk. Extinguish all flames in the vicinity. Block any potential routes to water systems.

Clean-Up Procedures  
Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal. Use spark-proof tools. Do not flush spill to drain. Do not allow the spilled product to enter public drainage system or open water courses.

Evacuation Procedures  
Isolate area. Keep unnecessary personnel away.
Special Procedures
Avoid excessive inhalation of vapor, fumes, dust and/or mist from the spilled material. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Regulations vary. Consult local authorities before disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures
Keep this product from heat, sparks, or open flame. Ground and bond all containers. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product.

Storage Procedures
Keep the container tightly closed and in a cool, well-ventilated place. Eliminate all sources of ignition. Do not store or heat this material above 120°F (49°C). Do not freeze. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines
A: General Product Information
The OSHA air contaminants exposure limits (PELs) are those provided in the 1989 update to 29 CFR 1910.1000. These limits were vacated by OSHA and may not be enforceable.

B: Component Exposure Limits
V.M. & P. Naphtha (8032-32-4)
OSHA 300 ppm TWA; 1350 mg/m3 TWA
(Vacated): 400 ppm STEL; 1800 mg/m3 STEL
NIOSH: 350 mg/m3 TWA
1800 mg/m3 Ceiling 15 min

Isopropyl alcohol (67-63-0)
ACGIH: 200 ppm TWA
400 ppm STEL
OSHA (Final): 400 ppm TWA; 980 mg/m3 TWA
OSHA (Vacated): 400 ppm TWA; 980 mg/m3 TWA
NIOSH: 400 ppm TWA; 980 mg/m3 TWA
1800 mg/m3 Ceiling 15 min

Toluene (108-88-3)
ACGIH: 20 ppm TWA
OSHA (Final): 200 ppm TWA
300 ppm Ceiling
OSHA (Vacated): 100 ppm TWA; 375 mg/m3 TWA
NIOSH: 100 ppm TWA; 375 mg/m3 TWA
150 ppm STEL; 560 mg/m3 STEL

Engineering Controls
Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product. Explosion-proof exhaust devices are required.

PERSONAL PROTECTIVE EQUIPMENT
Personal Protective Equipment: Eyes/Face
Wear chemical goggles; face shield (if splashing is possible).
Personal Protective Equipment: Skin
Use impervious gloves. Use of an impervious apron is recommended.

Personal Protective Equipment: Respiratory
Wear a NIOSH approved air purifying respirator with appropriate chemical cartridges or a positive-pressure, air-supplied respirator. Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

Personal Protective Equipment: General
Eye wash fountain and emergency showers are recommended. Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Non-viscous liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>17.9 mmHg (2.4 kPa)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 100°F (&gt;37.78°C)</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>138 (butyl acetate = 1)</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>100% (v/v), 100% (w/w)</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>Open cup</td>
</tr>
<tr>
<td>Flammability Class</td>
<td>OSHA Class 1B Flammable</td>
</tr>
<tr>
<td></td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.76</td>
</tr>
<tr>
<td>LFL:</td>
<td>1%</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
Stable under normal conditions.

Chemical Stability: Conditions to Avoid
Keep away from heat, ignition sources and incompatible materials.

Incompatibility
Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

Hazardous Decomposition
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions
Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects
A: General Product Information
Liquid and vapors are flammable. Vapor accumulation can flash or explode when ignited. This product is irritating to the eyes and respiratory system and may cause slight skin irritation. This product is harmful by inhalation and if it is swallowed.
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B: Component Analysis - LD50/LC50

**V.M. & P. Naphtha (8032-32-4)**
Inhalation LC50 Rat 3400 ppm 4 h

**Solvent naphtha (petroleum), medium aliphatic (64742-88-7)**
Inhalation LC50 Rat >5.28 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

**Isopropyl alcohol (67-63-0)**
Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg

**Toluene (108-88-3)**
Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Carcinogenicity
A: General Product Information
No information available for the product.

B: Component Carcinogenicity

**Isopropyl alcohol (67-63-0)**
- ACGIH: A4 - Not Classifiable as a Human Carcinogen
- IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

**Toluene (108-88-3)**
- ACGIH: A4 - Not Classifiable as a Human Carcinogen
- IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Teratogenicity
Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. It has been reported in occupational studies that inhalation exposures to toluene are associated with reproductive effects including spontaneous abortion. However, the methodology and reliability of the results for the studies are questionable.

*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
No information available for the product as a tested mixture. Based on components, product may be harmful to aquatic life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

**V.M. & P. Naphtha (8032-32-4)**

**Test & Species**

<table>
<thead>
<tr>
<th>72 Hr EC50 Pseudokirchneriella subcapitata</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4700 mg/L</td>
</tr>
</tbody>
</table>

**Solvent naphtha (petroleum), medium aliphatic (64742-88-7)**

**Test & Species**

<table>
<thead>
<tr>
<th>96 Hr LC50 Pimephales promelas</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 mg/L [static]</td>
<td></td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Material Name: Wax & Grease Remover

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr EC50 Pseudokirchneriella subcapitata</td>
<td>450 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>&gt;100 mg/L</td>
</tr>
</tbody>
</table>

**Isopropyl alcohol (67-63-0)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>9640 mg/L [flow-through]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>11 130 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>&gt;140 000 µg/L</td>
</tr>
<tr>
<td>96 Hr EC50 Desmodesmus subspicatus</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>72 Hr EC50 Desmodesmus subspicatus</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>13 299 mg/L</td>
</tr>
</tbody>
</table>

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>15.22-19.05 mg/L [flow-through]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>12.6 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>5.89-7.81 mg/L [flow-through]</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>14.1-17.16 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>5.8 mg/L [semi-static]</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>11.0-15.0 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Oryzias latipes</td>
<td>54 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Poecilia reticulata</td>
<td>28.2 mg/L [semi-static]</td>
</tr>
<tr>
<td>96 Hr LC50 Poecilia reticulata</td>
<td>50.87-70.34 mg/L</td>
</tr>
<tr>
<td>96 Hr EC50 Pseudokirchneriella subcapitata</td>
<td>&gt;433 mg/L</td>
</tr>
<tr>
<td>72 Hr EC50 Pseudokirchneriella subcapitata</td>
<td>12.5 mg/L [static]</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>5.46 - 9.83 mg/L [Static]</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>11.5 mg/L</td>
</tr>
</tbody>
</table>

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**Section 13 - Disposal Considerations**

US EPA Waste Number & Descriptions

A: General Product Information

If discarded as sold, this product is considered a RCRA ignitable waste, D001. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
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Material Name: Wax & Grease Remover

MSDS ID: SMT300-1

B: Component Waste Numbers

Toluene (108-88-3)

RCRA: waste number U220

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. In case of large spills, follow all facility Emergency Response Procedures. Do not allow this material to drain into sewers/water supplies.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Paint Related Material, Limited Quantity.
UN/NA #: UN1263  Hazard Class: 3  Packing Group: II
Required Label(s): FLAMMABLE LIQUID

TDG Information

Shipping Name: Paint Related Material, Limited Quantity.
UN/NA #: UN1263  Hazard Class: 3  Packing Group: II
Required Label(s): FLAMMABLE LIQUID

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

*Isopropyl alcohol (67-63-0)*

SARA 313: 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

Acute Health: Yes  Chronic Health: Yes  Fire: Yes  Pressure: No  Reactive: No

State Regulations
A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.M. &amp; P. Naphtha</td>
<td>8032-32-4</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>64742-88-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Canadian WHMIS Information
A: General Product Information
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by CPR.

B: Component Analysis - WHMIS IDL
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.M. &amp; P. Naphtha</td>
<td>8032-32-4</td>
<td>1 %</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1 %</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1 %</td>
</tr>
</tbody>
</table>

WHMIS Classification: B2 - Flammable Liquid
D2A - Chronic Health Effects

Additional Regulatory Information
A: General Product Information
No additional information available.

B: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
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</thead>
<tbody>
<tr>
<td>V.M. &amp; P. Naphtha</td>
<td>8032-32-4</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
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<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>64742-88-7</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Other Information
Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.
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Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.