SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier
Product name : DE-GREASE
Product form: Liquid
Other means of identification: 0401

Relevant identified uses of the substance or mixture: Solvent degreaser.

Details of the supplier of the safety data sheet
Manufacturer:
Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150
Phone: 816-472-5515
Emergency telephone number
Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification
Flammable Liquids- Category 2
Acute Toxicity-Inhalation- Category 4
Serious eye damage/Eye Irritation - Category 2B
Skin corrosion/irritation - Category 2
Reproductive toxicity - Category 2
Specific target organ toxicity- single exposure (Category 3), Central nervous system.
Specific target organ toxicity- repeated exposure (Category 2)
Aspiration hazard – Category 1
Acute aquatic toxicity – Category 2
Chronic aquatic toxicity – Category 2

Pictogram

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor.
Harmful if inhaled.
May be fatal if swallowed and enters airways.
Causes skin and eye irritation
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

**Precautionary Statements – Prevention**
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces- No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Use in well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
In case of inadequate ventilation, wear respiratory protection.
Wear protective gloves/protection clothing/eye protection/face protection
Avoid breathing mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

**Precautionary Statements – Response**
In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

**Precautionary Statements – Storage**
Store in a well ventilated place. Keep container tightly closed. Store locked up.

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Section III – Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>8008-20-6</td>
<td>30-40</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>30-40</td>
</tr>
<tr>
<td>Distillates (Petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>20-30</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., compds, with isopropylamine</td>
<td>68584-24-7</td>
<td>1-5</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

**Inhalation:** Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor/physician. Immediate medical attention required.

**Skin Contact:** Remove contaminated clothing, wash victim with plenty of water. If skin irritation persists, call a physician.

**Most Important Symptoms and Effects, both Acute and Delayed**

**Symptoms**
May cause skin irritation and redness, serious eye irritation with watering and redness, inhalation may cause drowsiness, dizziness, nausea, headache.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians:** Treat symptomatically. Symptoms may be delayed.
Section V – Fire Fighting Measures

Suitable Extinguishing Media
Alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: High volume water jet.

Specific Hazards Arising from the Chemical
Carbon oxides

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear.

Section VI – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Eliminate all ignition sources. Prevent further leakage or spillage if safe to do so. Prevent discharge to open bodies of water, municipal sewers, and watercourses.

Methods for Cleaning Up: Use non-combustible material like vermiculite, sand or earth to soak up the product and place into a suitable container for later disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Avoid breathing mists or vapors. Avoid all personal contact. Potentially toxic/irritating fumes/vapors may be evolved from material. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or ground procedures.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
Section VIII – Exposure Controls/ Personal Protection

### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>8008-20-6</td>
<td>200 mg/m³</td>
<td>No data available</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>20 ppm</td>
<td>200 ppm available</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td>Distillates(Petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>212 ppm</td>
<td>1200 mg/m³</td>
<td>No data available</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., compds., with isopropylamine</td>
<td>68584-24-7</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

**Engineering Controls:** Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Wear approved chemical safety goggles/face shield where a splash hazard exists. Eyewash station is recommended.

**Hand Protection:** Chemical resistant protective gloves should be worn to prevent skin contact.

**Suitable materials may include, chloroprene rubber (Neoprene), nitrile rubber (Buna N), butyl rubber, depending upon conditions of use.**

**Skin and Body Protection:** Wear suitable protective clothing. Cover as much of the exposed skin as possible to prevent all skin contact.

**Respiratory Protection:** When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place. For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-approved full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

Section IX – Physical & Chemical Properties

### Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td><strong>Property</strong></td>
<td><strong>Values</strong></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>110-230 °C (230-347 °F)</td>
</tr>
</tbody>
</table>
Flash Point 29.4 °C (85 °F)
Evaporation Rate No data available
Flammability (Solid,Gas) n/a-liquid
Upper Flammable Limits No data available
Lower Flammable Limits No data available
Vapor Pressure No data available
Vapor Density No data available
Specific Gravity 0.84
Water Solubility emulsifiable in water
Solubility in Other Solvents No data available
Partition Coefficient No data available
Autoignition Temperature No data available
Decomposition Temperature No data available
Kinematic Viscosity No data available
Dynamic Viscosity No data available
Explosive Properties Not an Explosive
Oxidizing Properties No data available
Odor Light aromatic
Odor Threshold No data available

Section X – Stability & Reactivity

Reactivity
No corrosive effect on metal. Not an oxidizer

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Vapors may form explosive mixture with air.

Conditions to Avoid
Heat, sparks, flames.
Extremes of temperature and direct sunlight.

Incompatible Materials
Strong oxidizing agents, strong acids, strong bases, amines.

Hazardous Decomposition Products
carbon monoxide, carbon dioxide, nitrogen oxide.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information:
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
This product as a whole has not been tested for acute toxicity; the following is based on component data:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>8008-20-6</td>
<td>2,835 mg/kg (Rabbit)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&gt;5,580 mg/kg (Rat)</td>
<td>12,196 mg/kg (Rabbit)</td>
<td>12,500-28,800 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Distillates(Petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs.,compds, with isopropylamine</td>
<td>68584-24-7</td>
<td>500-2000 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>No data available</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>&gt;3310 ml/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Skin corrosion/irritation</th>
<th>Kerosene</th>
<th>Toluene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Irritating to skin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>No data available</td>
<td></td>
<td>No irritation</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No data available</td>
<td></td>
<td>Liver, DNA damage</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not listed</td>
<td></td>
<td>3-Group 3 not classifiable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
<td></td>
<td>Fetotoxicity</td>
</tr>
<tr>
<td>Specific target organ toxicity-Single exposure</td>
<td>Inhalation-respiratory system</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity-repeated exposure</td>
<td>No data available</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>May be fatal if swallowed and enters airways</td>
<td></td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Skin corrosion/irritation</th>
<th>Distillates(Petroleum), hydrotreated light</th>
<th>Benzenesulfonic acid, C10-16-alkyl derivs.,compds, with isopropylamine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Irritating to skin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye irritation</td>
<td></td>
<td>Serious eye irritation</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No known significant effects</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No known significant effects</td>
<td></td>
<td>Not listed</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No known significant effects</td>
<td></td>
<td>Not expected to cause.</td>
</tr>
<tr>
<td>Specific target organ toxicity-Single exposure</td>
<td>Narcotic effects</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity-repeated exposure</td>
<td>No data available</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>May be fatal if swallowed and enters airways</td>
<td></td>
<td>No data available</td>
</tr>
</tbody>
</table>
### Chemical Name
Nonylphenol, ethoxylated

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Irritating to skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye irritation</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Does not cause sensitization</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No carcinogenic properties</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not expected to cause</td>
</tr>
<tr>
<td>Specific target organ toxicity-Single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity-repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not a hazard</td>
</tr>
</tbody>
</table>

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Carcinogenicity:** This product does contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity:** Not determined

## Section XII - Ecological information

### Ecotoxicity
There is no data available for this product as a whole.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>8008-20-6</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>EC50-Chlorella vulgaris</td>
<td>LC50-Oncorhynchus mykiss</td>
<td>EC50 Daphnia magna(Water flea)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Fresh water algae) - 245</td>
<td>(rainbow trout) 7.63 mg/l 96 h</td>
<td>8.00 mg/l-24 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mg/l 24 h EC50-</td>
<td>LC50 Fathead minnow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pseudokirechnereilla subcapitata (Green algae) - 10 mg/l -24 h</td>
<td>(Pimephales promelas) 5.44 mg/l, 7 d</td>
<td></td>
</tr>
<tr>
<td>Distillates(Petroleum) , hydrotreated light</td>
<td>64742-47-8</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs.,compds, with isopropylamine</td>
<td>68584-24-7</td>
<td>EC50 Algae 50-100 mg/l 72 h</td>
<td>LC50 Fish 1.18-6.5 mg/l, 96 h</td>
<td>EC50 Daphnia 6.9 mg/l 48 h</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>No data available</td>
<td>LC50 Fathead minnow (Pimephales promelas) 73-96 mg/l, 96 h</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Persistence and Degradability
No data available

#### Bioaccumulation
No data available

#### Mobility
No data available
Section XIII - Disposal considerations

Waste Disposal Method
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:
Bulk & Non Bulk: NA1993, compounds cleaning liquid (Toluene, Distillates (Petroleum), hydrotreated light, 3, PGIII

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Fire, acute, chronic health hazards.
SARA Title III Section 313 (40CFR372): Toluene,
RCRA Status (40CFR261.33): No reportable components.
TSCA Inventory Status: Reported/included
OSHA/NTP/IARC Carcinogen Status: Not listed
Canadian DSL Status: No data available

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:
Toluene,

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toluene</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Distillates(Petroleum), hydrotreated light</td>
<td>Nonane</td>
<td>Nonane</td>
<td>Nonane</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs.,compds, with isopropylamine</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Section XVI - Other information

HMIS ratings: Health: 2 Flammability: 3 Reactivity: 0
Indication of changes: Revision – 1
Date Sheet Prepared: 04/15/2015 Other information: Author – EHS Administrator

******************************************************************************
The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.
No representations or warranty’s, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS