MATERIAL SAFETY DATA SHEET: PREMALUBE RED AERO (HV)

Section I - General Information

Date of Issue: 12/7/2006 12:00:00 AM
Trade Name & Synonyms: PREMALUBE RED AERO (HV)
Prepared By: D Hollas/Chemist
Product Code Number: 5218
Emergency Phone Number: 800-624-9300

Section II - Hazardous Ingredients

**Chemical Name:** PREMALUBE RED AERO (HV)
**Product Code Number:** 5218
**Emergency Phone Number:** 800-624-9300

### Chemical Name (Ingredients)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>TLV</th>
<th>PEL</th>
<th>STEL</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRRITANT</td>
<td>5 MG/M3</td>
<td>5 MG/M3</td>
<td>02</td>
<td>10 MG/M3</td>
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<tr>
<td>N-Hexane</td>
<td>Flammable</td>
<td>50 PPM</td>
<td>1</td>
<td>500 PPM</td>
</tr>
<tr>
<td>N-Heptane</td>
<td>Flammable</td>
<td>400 PPM</td>
<td>1</td>
<td>500 PPM</td>
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<tr>
<td>Cyclohexane</td>
<td>Flammable</td>
<td>100 PPM</td>
<td>1</td>
<td>300 PPM</td>
</tr>
<tr>
<td>Alumina-Benzoate Fatty Acid Complex</td>
<td>Flammable</td>
<td>1000 PPM</td>
<td>1</td>
<td>1000 PPM</td>
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<tr>
<td>Antimony Diallylthiocarbamate</td>
<td>Flammable</td>
<td>0.5 MG/M3</td>
<td>#1</td>
<td>0.5 MG/M3</td>
</tr>
</tbody>
</table>

### Extinguishing Media:

- [V] Foam
- [V] Alcohol Foam
- [V] Water Spray
- [V] Dry Chemical
- [V] CO2
- [V] Other

### Special Fire Fighting Procedures:

Firefighters should wear a self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.

### Unusual Fire and Explosion Hazards:

Flame extension is >30 inches. Burnback is 3 inches. This product is extremely flammable. Vapors are heavier than air and may travel to distant and/or low-lying sources of ignition and flash back. Product may produce a floating fire hazard as liquid floats on water. The use of water spray (FOG) will be effective, may cause frothing and foaming. Never use a water jet as this will just spread the fire. Use care as spills may be slippery.

### Threshold Limit Value:

Not established for mixture. See Section II.

### Effects of Overexposure:

#### Acute: (Short Term Exposure)

Eye contact: Causes irritation seen as stinging, tearing, and redness. Skin contact: May cause irritation seen as itching, redness, and a burning sensation. Prolonged or repeated contact as from clothing wet with material may cause drying, defatting, and cracking of the skin. Product may be absorbed through the skin and cause harmful amounts. Inhalation: Vapor or mist may cause respiratory irritation seen as coughing, sneezing, a burning sensation of the nose and throat, and difficulty breathing. At low vapor concentrations, no harmful effects are expected. At high vapor concentrations, inhalation may cause central nervous system effects such as headache, dizziness, drowsiness, weakness, unconsciousness, possible anesthetic effects from central nervous system depression, and may cause cardiac depression and may be fatal. Ingestion: May cause irritation with possible nausea, vomiting, and diarrhea. May cause central nervous system effects similar to inhalation.

#### Chronic: (Long Term Exposure)

On rare occasions, prolonged and repeated exposure to hydrocarbon or oil mist poses a risk of chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and coughing are the most common symptoms. Aspiration may lead to pulmonary edema and bronchospasm and may be fatal. Signs of lung involvement include increased respiration and heart rates as well as a bluish discoloration of the skin. Chronic inhalation of solvents like hexane have caused heart beat irregularity, heart beat increase, and permanent central and peripheral nervous system damage, resulting in decreased learning ability, loss of memory, personality changes, and disturbances in gait. A condition known as "painter's syndrome" can occur causing a loss of sensation in the hands and hands (peripheral neuropathy). Prolonged or repeated exposure may cause cardiac sensitization. Chronic skin contact may promote dermatitis and oil acne. In rarer cases, an increased sensitivity to sunlight (photodermatitis) may occur. May cause skin sensitization in some individuals. Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis. Pre-existing reproductive, neurological, and cardiovascular disorders. Target organs: Heart, liver, lungs, blood-forming organs, and male reproductive system.
Primary Routes of Entry

- Inhalation [V]
- Ingestion [V]
- Absorption

Emergency First Aid Procedures:

Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Skin Contact:

WIPE AWAY MATERIAL WITH A CLOTH. WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. CLEAN CLOTHING AND SHOES.

Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

- [IARC]
- [NTP]
- [OSHA]
- [ACGIH]
- [Other]

VOC CONTENT: 57.5% BY WEIGHT; 66.9% BY VOLUME; 420 G/L.

HYDROTREATED NAPHTHENOIC PETROLEUM DISTILLATE (<3% DMSO EXTRACTABLE MATERIAL)

ORL-RAT LD50: >5 GM/KG 4.
SN-RBT SDT: 500 MG SEVERE 4.

MINERAL OIL AND HYDROCARBON MISTS DERIVED FROM ROUGHLY REFINED OILS AND PETROLEUM DISTILLATES ARE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE AND SHORT-TERM REPEATED EXPOSURES TO HIGH CONCENTRATIONS WELL ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS INCLUDE LONG-TERM INFLAMMATORY REACTION, LIPOID GRANULOMA FORMATION, AND LIPOID PNEUMONIA. IN ACUTE AND SUB-ACUTE STUDIES INVOLVING EXPOSURES TO LOWER CONCENTRATIONS AT OR NEAR CURRENT WORKPLACE EXPOSURE LEVELS PRODUCED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. IN LONG-TERM STUDIES (UP TO TWO YEARS) NO CARCINOGENIC EFFECTS HAVE BEEN REPORTED IN ANY ANIMAL SPECIES TESTED. THESE PETROLEUM DISTILLATES ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. FOR THIS REASON, THEY ARE NOT CLASSIFIED AS CANCER HAZARDS.

N-HEXANE

IHL-MMM TCLo: 150 PPM/8W 4.
EYE-RBT-SDT: 10 MG MILD 4.

THIS MATERIAL MAY ADVERSELY AFFECT THE MALE REPRODUCTIVE SYSTEM (DECREASED SPERM COUNTS AND DEGENERATIVE CHANGES IN THE TESTES) BASED ON TESTING IN LABORATORY ANIMALS. EFFECTS WERE CONSISTENT WITH MALE RATS HYALINE DROPLET NEPHROPATHY WHICH IS OF QUESTIONABLE SIGNIFICANCE TO HUMAN HEALTH. IN ANIMALS, REPEATED EXPOSURE TO HIGH CONCENTRATIONS OF A SIMILAR SOLVENT HAS CAUSED A DECREASE IN THE RED BLOOD CELL COUNT.

CAUSES FETOTOXICITY IN ANIMALS AT DOSES WHICH ARE MATERNALLY TOXIC.

N-HEPTANE

ORL-RAT TCLo: 60 G/KG/3W-1 4.

CYCLOHEXANE

SN-RBT SDT: 1548 MG/2D (INTERMITTENT) 4.
IHL-RAT TCLo: 300 PPM/6H/2W-I 4.

PROPANE

IHL-LC50: >40% BY VOLUME 3.

N-BUTANE

ALUMINUM BENZOATE FATTY ACID COMPLEX

NO TOXICITY DATA AVAILABLE

ANTIMONY DIALKYLTHIOCARBAMATE

SKN-RBT LD50: 16000 MG/KG 4.

Section VII - Reactivity Data

Stability

- [V] Stable
- [ ] Unstable

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Hazardous Polymerization

- [V] Will not occur
- [ ] May occur

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH, CONCENTRATED HYDROGEN PEROXIDE, CHROMIC ACID, AND BROMINE; ACIDS AND ALKALIS.

Hazardous Decomposition Products:

OXIDES OF ALUMINUM, ANTIMONY, CARBON, NITROGEN, AND SULFUR; ALDEHYDES; AMINES; CARBON DISULFIDE; HYDROGEN SULFIDE GAS; KETONES; SMOKE AND FUMES; VARIOUS OTHER HYDROCARBONS.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, WEAR APPROPRIATE PROTECTIVE CLOTHING, ELIMINATE IGNITION SOURCES OF ELECTRICAL, STATIC, OR FRUCTIONAL SPARKS, VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

Waste Disposal Method(s):
Section IX - Special Protection Information

Required Ventilation:
LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

Glove Protection:
NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

Other Protection:
WEAR GENERAL-DUTY WORK CLOTHES AND SHOES. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

Section X - Storage and Handling Information

<table>
<thead>
<tr>
<th>Storage Conditions</th>
<th>Indoors</th>
<th>Outdoors</th>
<th>Heated</th>
<th>Refrigerated</th>
</tr>
</thead>
</table>

Precautions to be Taken in Handling and Storing:
USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME.

Other Precautions:
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

Section XI - Regulatory Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Upper % Limit</th>
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<tbody>
<tr>
<td>HEXANE</td>
<td>110-54-3</td>
<td>30</td>
</tr>
<tr>
<td>ANTIMONY COMPOUNDS</td>
<td>N/A</td>
<td>5</td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>110-82-7</td>
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Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2006.
2. OSHA PEL.
3. VENDOR'S MSDS.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the product.

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