1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING


Use of the substance/preparation: Multipurpose lubricant/penetrant.

Version No.: 01

Revision date: 14-Sept 2012

CAS No.: Mixture

Supplier: Plews & Edelmann
1550 Franklin Grove Road
Dixon, IL 61021
815-288-3344

Manufacturer Address: Environmental Lubricants Manufacturing, Inc.
311 B Ave -Grundy Center, IA 50638

SDS Questions: (319) 824-5203

Emergency telephone: CHEMTREC: (800) 824-9300

2. HAZARDS IDENTIFICATION

This substance is classified as dangerous according to Directive 67/548/EEC.

Classification: F+;R12

Physical hazards: Extremely flammable.

Health hazards: Not classified as a health hazard.

Environmental hazards: Not Toxic-Not classified as an environmental hazard.

Specific hazards: Breathing of high vapour concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness. Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol containers can be ignited. Aerosol containers can burst violently when heated, due to excess pressure buildup.


3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>%</th>
<th>EC-No. / REACH Registration No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable Oil</td>
<td>120962-03-0</td>
<td>50 - 80</td>
<td>273-313-5</td>
<td></td>
</tr>
</tbody>
</table>

Propellant: Petroleum gases, liquefied, sweetened

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>%</th>
<th>EC-No. / REACH Registration No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>68476-86-8</td>
<td>15 - 25</td>
<td>270-705-8</td>
<td></td>
</tr>
</tbody>
</table>
2-tert-butyl-hydroquinone  1948-33-0  0 - 0.2  217-752-2

Composition comments  The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST-AID MEASURES

Inhalation  Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact  Remove contaminated clothing. Wash contact areas with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact  Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops or persists.

Ingestion  Not relevant due to the container type.

Most important symptoms and Effects  Symptoms include itching, burning, redness, and tearing of eyes.

General advice  Get medical attention if any discomfort develops.

Notes to physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media  Dry chemical, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons  None.

Unusual fire & explosion hazards  Aerosol containers can explode when heated, due to excessive pressure build-up.

Specific hazards  During fire, gases hazardous to health may be formed.

Special protective equipment for fire-fighters  Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions  Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions  Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). For personal protection, see Section 8. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes.

Environmental precautions  Avoid discharge into drains, water courses or onto the ground. Collect and dispose of spillage as indicated in Section 13. Contact local authorities in case of spillage to drain/aquatic environment.

Methods for cleaning up  Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Small Spills: Absorb spillage with non-combustible, absorbent material. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

7. HANDLING AND STORAGE

Handling  Local exhaust is recommended. Do not inhale aerosols/spray mist. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. The product is extremely flammable. May form explosive mixtures with air. Do not smoke and do not spray near a naked flame or other sources of ignition. Observe good industrial hygiene practices.

Storage  Keep away from heat, sparks and open flame. Keep in a cool, well-ventilated place. Store away
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits  No exposure limits noted for ingredient(s).

Exposure controls  Ventilation should effectively remove and prevent buildup of any aerosols or mists generated from the handling of this product.

Occupational exposure controls

Respiratory protection  In case of inadequate ventilation use suitable respirator. Use air-supplied respirator. Seek advice from local supervisor.

Hand protection  Wear protective gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

Eye protection  Wear approved safety goggles.

Skin and body protection  Wear suitable protective clothing.

General  Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Environmental exposure controls  Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major spillages.

Hygiene measures  Handle in accordance with good industrial hygiene and safety practices. Wash hands after handling. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance  Aerosol (clear liquid).

Physical state  Liquid.

Form  Aerosol

Colour  Yellow.

Odour  Faint vegetable oil.

Odour threshold  Not available.

pH  Not available.

Boiling point  Not available.

Flash point  < 0 °C (< 32 °F)

Flammability  Not available.

Flammability limits in air, upper, % by volume  Not available.

Flammability limits in air, lower, % by volume  Not available.

Vapour pressure  50 psi (20 °C)

Relative density  0.921 (Water = 1)

Solubility (water)  Insoluble.
Partition coefficient (n-octanol/water) Not available.

Viscosity Not available.

Vapour density > 1 (Air = 1)

Evaporation rate Not available.

Melting point Not available.

Freezing point Not available.

Auto-ignition temperature Not available.

VOC 24 %

10. STABILITY AND REACTIVITY

Stability Stable at a temperature below 50°C.

Conditions to avoid Avoid exposing aerosol containers to high temperatures or direct sunlight. Contact with incompatible materials.

Materials to avoid Strong oxidising agents.

Hazardous decomposition Products At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

Hazardous polymerisation Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Vapours and spray mist may irritate throat and respiratory system and cause coughing. In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Routes of exposure Eye contact. Inhalation. Skin contact.

Chronic toxicity Prolonged or repeated contact may dry skin and cause irritation.

Sensitisation The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.

Carcinogenicity No data available for this product.

Mutagenicity No test data available for the product.

Reproductivity No test data available for the product.

Epidemiology No epidemiological data is available for this product.

Local effects May irritate eyes and mucous membranes. May cause skin irritation. May cause redness and pain.

12. ECOLOGICAL INFORMATION

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Mobility The product is insoluble in water and will spread on the water surface. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Persistence and degradability No data available.

Bioaccumulation No data available on bioaccumulation.
Environmental effects
The product contains volatile organic compounds which have a photochemical ozone creation potential.

Other adverse effects
The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. DISPOSAL CONSIDERATIONS

Disposal instructions
Do not puncture or incinerate even when empty. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

Waste from residues / unused Products
Dispose of in accordance with local regulations.

EU wastecodes
15 01 10*

Waste management measures
Empty aerosol containers are safe for disposal along with normal domestic refuse (special arrangements may apply locally).

14. TRANSPORT INFORMATION

ADR
Proper shipping name AEROSOLS
Hazard class 2.1
UN number 1950
Labels required 2.2
Item 5T
Transport Category 2 (D)

IATA
Proper shipping name Aerosols
Hazard class 2.1
UN number 1950

IMDG
Proper shipping name AEROSOLS
Hazard class 2.1
Subsidiary hazard class 5T
UN number 1950

15. REGULATORY INFORMATION

Labelling
Symbol(s)
![Flammable Symbol]

Extremely flammable

R-phrase(s)
R12 Extremely flammable.
S-phrase(s)
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe fumes, vapour.
S60 This material and its container must be disposed of as hazardous waste.

Supplemental information on the label
Pressurised container:
protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3
R12 Extremely flammable.

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Yes Substances (EINECS)</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS) No</td>
</tr>
</tbody>
</table>

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

Disclaimer
The information given is based on data available for the material, the components of the material, and similar materials.

Issue date
21-June-2010