

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

Identification of the substance/preparation ISO 46 Hydraulic Oil – 10560

Use of the substance/preparation Hydraulic Oil
Version No. 01
Revision date 17-September-2012
CAS No. Mixture

Supplier **Plews & Edelmann**
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Dixon, IL 61021
815-288-3344

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2. HAZARDS IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Physical hazards Not classified as a physical hazard.

Health hazards Not Classified as a health hazard.

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

Specific hazards May form vapors or oil mists during mechanical action or at elevated temperatures which may be irritating to the respiratory tract. Excessive inhalation of oil mist may affect respiratory system. Dermatitis after prolonged exposure. Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne.

Main symptoms Irritant effects. Irritation of eyes and mucous membranes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | Classification | CAS-No. | % | EC-No. / REACH Registration No. | Notes |
|---------------------------|----------------|-------------|---------|------------------------------------|-------|
| Vegetable Oil | - | 120962-03-0 | 60-100 | 273-315-5 | |
| 2-tert-butyl-hydroquinone | | 1948-33-0 | 0 - 0.5 | 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 clothes and rinse skin thoroughly with water for at least 15 minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these

instructions.

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| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops or persists. |
| Ingestion | Drink 1 or 2 glasses of water. Get medical attention if any discomfort continues. |
| 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

| | |
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| Suitable extinguishing media | Dry chemical, foam, carbon dioxide. |
| Extinguishing media which must not be used for safety reasons | Do not use water jet as an extinguisher, as this will spread the fire. |
| Unusual fire & explosion Hazards | None known |
| Specific hazards | Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised. |
| 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

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| Personal precautions | Ensure adequate ventilation. Remove sources of ignition. For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.. |
| Environmental precautions | Do not allow to enter drains, sewers or watercourses. 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 oil-absorbing material. Large Spills: Absorb spilled substance with sand or earth. |

7. HANDLING AND STORAGE

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| Handling | Wear appropriate personal protective equipment. Avoid inhalation of oil mist and contact with skin and eyes. Handle and open container with care. Use work methods which minimize production of vapors and mists. Observe good industrial hygiene practices. |
| Storage | Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place. Store away from incompatible materials. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|-------------------------------------|--|
| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Exposure controls | Provide adequate ventilation and minimize the risk of inhalation of vapors and oil mist. |

Occupational exposure controls

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|--|--|
| Respiratory protection | No personal respiratory protective equipment normally required. In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used. 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 | If risk of splashing, wear safety goggles or face shield. |
| Skin and body protection | Wear suitable protective clothing. Frequent change of gloves is advisable. |
| 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. |
| 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

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|---|-------------------------------|
| Appearance | Oily Liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Colour | Amber. |
| Odour | Characteristic vegetable oil. |
| Odour threshold | Not available. |
| pH | Not available. |
| Boiling point | Not available. |
| Flash point | 312 °C |
| Flammability | °C |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapour pressure | < 0.5 mm Hg at 20 °C |
| Relative density | 0.92 |
| Solubility (water) | Practically insoluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Viscosity | 44 cst @ 40 °C |
| Vapour density | > 1 (Air = 1) |
| Evaporation rate | < 1 (n-Butylacetate = 1) |
| Melting point | Not available. |
| Freezing point | Not available. |

Auto-ignition temperature Not available.
VOC 0 %

10. STABILITY AND REACTIVITY

Stability Stable at normal conditions.

Conditions to avoid High temperatures. Exposure to light. Contact with incompatible materials.

Materials to avoid Strong oxidising agents.

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

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity May form vapours or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract. Excessive inhalation of oil mist may affect respiratory system. Causes skin and eye irritation. Swallowing may cause gastrointestinal irritation.

Routes of exposure Eye contact. Inhalation. Skin contact.

Chronic toxicity Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis

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

Carcinogenicity IARC not listed.

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 Irritating to eyes and skin. 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 immiscible with water and will spread on the water surface.

Persistence and degradability No data available.

Bioaccumulation No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose in accordance with all applicable regulations.

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

EU waste codes 13 08 99*

14. TRANSPORT INFORMATION

ADR Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Other regulations

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**

This preparation is not classified as dangerous according to Directive 1999/45/EC

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Europe

European Inventory of Existing Commercial Chemical Substances (EINECS)

Yes

Europe European List of Notified Chemical Substances (ELINCS)

No

*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

10-June-2010