SAFETY DATA SHEET
Hydraulic Fluid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: Hydraulic Fluid
Synonym: Inservice Hydraulic Oil Sample
CAS-No. Mixture
EC No. Mixture
Issue date 03-March-2016
Revised date: 23-August-2021

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory Test Sample
Uses advised against: Other uses are not recommended unless an assessment is completed prior to commencement of that use, which demonstrates that the use will be controlled.

1.3 Details of the supplier of the safety data sheet
Clark Laboratories
1801 Route 51 South
Jefferson Hills, PA 15025
412-387-1001

1.4 Emergency Telephone #
Chemtrec - 24-hour emergency response: (800) 424-9300
International Collect: +1 703 741 5970
SDS Assistance Email: sds@clarktesting.com

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Health Hazards
High pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0
HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0
2.2. Label elements
No Hazard Symbol Required

Signal Word: None Required

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture
This material is a complex mixture of paraffinic, naphthenic and aromatic petroleum hydrocarbons that may contain one or more of the following: carbon deposits, sludge, aromatic and non-aromatic solvents, water (as a water-in-oil emulsion), glycols, wear metals and metallic salts, silicon-based antifoaming compounds, and miscellaneous lube-oil additive materials.
This product fits the ACGIH definition for mineral-oil mist.

Typical Ingredients: Typical Volume %: CAS Number
- Used Oil 80-100 N/A
- Water 0-20 N/A
- Diesel Fuel 0-5 68476-34-6 / 64742-34-3
- Gasoline 0-1 6474-46-4
- Solvents 0-1 N/A
- Ethylene Glycol Trace-3 107-21-1
- Deposits and Sludge Trace-1 N/A
- Misc. Additive Compounds Trace-0.5 N/A

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures
General information
Get medical attention if any discomfort continues. Inhalation
In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues. Ingestion
Get medical attention if any discomfort continues. Do not induce vomiting. Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed
General information
If aspiration into the lungs is suspected, ie: when vomiting, admit to hospital immediately. Inhalation
Upper respiratory irritation. Ingestion
May cause discomfort if swallowed. The product contains mineral oil, which if aspirated into the lungs through vomiting after ingestion, may result in chemical pneumonia.
Skin contact
Prolonged contact may cause redness, irritation, and dry skin. Eye contact
Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed
Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES
5.1. Extinguishing media
Extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog. Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
In case of fire, toxic gases (CO, CO2, NOx) may be formed. Fire may also create other unidentified organic gases some of which may be toxic.
Unusual Fire & Explosion Hazards
Heat from fire could result in drums bursting

5.3. Advice for firefighters
Special Fire Fighting Procedures
Keep run-off water out of sewers and water sources. Diike for water control. Protective equipment for fire-fighters
Self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions
Contain spillage with sand or earth. Do not allow to enter drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.

6.3. Methods and material for containment and cleaning up
Contain spillage with sand or earth. Use sealed containers for reclamation or dispose of at a licensed hazardous waste collection point. Avoid contact with water. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment.

6.4. Reference to other sections
For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid spilling, skin, and eye contact. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Storage Class
Miscellaneous hazardous material storage.

7.3. Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
</table>

Page 3 of 8
Highly refined mineral oil (C15-C50) & Inhalable & 5 mg/m³ & US ACGIH Threshold

ACGIH = American Conference of Governmental Industrial Hygienists.

8.2. Exposure controls

Process conditions
Use engineering controls to reduce air contamination to permissible exposure level. Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection
The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Eye protection
If risk of splashing, wear safety goggles or face shield.
Other Protection
Use barrier creams to prevent skin contact.
Hygiene measures
Wash promptly with soap & water if skin becomes contaminated.
Thermal hazards
Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.
Environmental Exposure Controls
Do not allow product to contaminate land.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark, Viscous, oily liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Brown to Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Pronounced hydrocarbon odor</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Pour point</td>
<td>-12 °C/10 °F</td>
</tr>
<tr>
<td>Density</td>
<td>7.3 LBS/Gal</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 0.013 kPa (0.1 mm Hg) at 20 °C</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;200°C (392°F)</td>
</tr>
<tr>
<td>Auto Ignition Temperature ND</td>
<td>Not known</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>Not known</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>Not known</td>
</tr>
</tbody>
</table>

9.2. Other information
Volatility Description
Not considered volatile. Vapors may be emitted on excessive heating.
The product is a complex mixture, the majority of which would not be classed as a VOC. However, it cannot be discounted that trace or low levels of VOC's may be present.

SECTION 10: STABILITY AND REACTIVITY
10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Unlikely to occur under normal conditions of use. Hazardous Polymerisation
Unlikely to occur.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to Avoid
Strong oxidizing substances.

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:
Acute Toxicity (Oral LD50) Rat
> 5.000 mg/kg
Expected to be low toxicity

Acute Toxicity (Dermal LD50) >5.000 mg/kg Rabbit
Expected to be low toxicity

The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.

Skin Corrosion/Irritation:
The classification criteria are not met. May cause mild skin irritation. Prolonged or repeated skin contact e.g. from clothing wet with lubricant may cause dermatitis. Symptoms may include redness, edema, drying, and cracking skin.

Serious eye damage/irritation:
May cause mild, short lasting discomfort to eyes.

Respiratory or skin sensitization:
No evidence to suggest the product will be a respiratory sensitizer. Repeated exposure to oil mists may cause respiratory damage. Not expected to be a skin sensitizer based on information on components.

Carcinogenicity:
Not expected to be carcinogenic.

Reproductive Toxicity:
No data available to suggest the product will cause reproductive toxicity.

Aspiration hazard:
Not considered an aspiration hazard.

The product viscosity is greater than the upper limit assigned for classification. The product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion admit to hospital immediately.

General information
This product has low toxicity. Only large volumes may have adverse impact on human health.
Inhalation
Unlikely to be hazardous by inhalation because of the low vapor pressure of the substance at ambient temperature.

Ingestion
No harmful effects expected in amounts likely to be ingested by accident.

Skin contact
Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

Eye contact
May cause temporary eye irritation.

Specific effects
Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Based on available data the classification criteria are not met. Not regarded as dangerous for the environment.

12.1. Toxicity
Acute Fish Toxicity
Based on available data the classification criteria are not met. Not considered toxic to fish. Based on available data the classification criteria are not met.

12.2. Persistence and degradability
The product contains mineral oil which has limited biodegradability in CEC test methods but will biodegrade slowly in aerobic water and sediments and is considered ultimately biodegradable.

Degradability
The product is not readily biodegradable.
The product is based on highly refined mineral oils that are considered stable to hydrolysis.
The product is not considered readily biodegradable, albeit the major constituents are expected to ultimately biodegrade.

Biological Oxygen Demand
Not determined.
Chemical Oxygen Demand
Not determined.

12.3. Bioaccumulative potential
Bioaccumulative potential
Bioaccumulation is unlikely to be significant because of the low water solubility of this product. Bioaccumulation factor
Not known.
Partition coefficient
Not determined.
log Kow > 6
The above figure is typical of mineral oil.

12.4. Mobility in soil
Mobility:
The product is non-volatile. The product is insoluble in water and will spread on the water surface. Henry's Law Constant
Not determined.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Not Applicable

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Uk Regulatory References
Health and Safety at Work
Act 1974. Environmental Listing
Statutory Instruments
Safety Data Sheets for Substances and Preparations. Guidance Notes
Workplace Exposure Limits EH40. EU Legislation

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

N/A

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. Adequate training and instruction should be given by you to your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the fitness for use of the material, or the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS. The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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