

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier**

**Product Name** Hydraulic Oil  
**Product Code(s)** 20-3000, 20-3032  
**(M)SDS Number** 1348161\_A

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Laboratory Use Only  
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer** Buehler  
**Manufacturer Address** 41 Waukegan Rd  
Lake Bluff, IL 60044  
www.buehler.com  
**Phone number** +1 847 295 6500  
**E-mail Address** custserv@buehler.com

**Emergency telephone number**

Global Access Code: 334545  
Americas: +1 760 476 3962 Asia Pacific: +1 760 476 3960  
Middle East/Africa: +1 760 476 3959 Europe: +1 760 476 3961


**2. HAZARDS IDENTIFICATION****Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                 |             |
|-----------------|-------------|
| Carcinogenicity | Category 1A |
|-----------------|-------------|

**GHS Label elements, including precautionary statements**

Emergency Overview

|   |                           |                  |  |
|---|---------------------------|------------------|--|
| <b>Signal word</b>  | <b>Danger</b>             |                  |  |
| <b>Hazard Statements</b><br>May cause cancer                                      |                           |                  |  |
|  |                           |                  |  |
| <b>Appearance</b> Amber   | <b>Physical state</b> Oil | <b>Odor</b> Oily |  |

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

No information available

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name   | CAS No     | Weight-% | Trade Secret |
|---|------------|----------|--------------|
| Distillates, petroleum, hydrotreated heavy paraffinic | 64742-54-7 | 50 - 80% | *            |
| Residual oils (petroleum), solvent dewaxed            | 64742-62-7 | 20 - 50% | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**First aid measures****Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

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|                     |   |
|---------------------|---|
|                     | physician.  |
| <b>Skin contact</b> | Wash with soap and water.   |
| <b>Inhalation</b>   | Remove to fresh air.  |
| <b>Ingestion</b>    | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. |

**Most important symptoms and effects, both acute and delayed**

|  |                           |
|--|---------------------------|
| <b>Most Important Symptoms and Effects</b> | No information available. |
|--|---------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion Data**

|   |       |
|---|-------|
| <b>Sensitivity to Mechanical Impact</b> | None. |
|---|-------|

|  |       |
|--|-------|
| <b>Sensitivity to Static Discharge</b> | None. |
|--|-------|

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Ensure adequate ventilation.                             |
| <b>Other Information</b>    | Refer to protective measures listed in Sections 7 and 8. |

### Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

### Methods and material for containment and cleaning up

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so.                                       |
| <b>Methods for cleaning up</b> | Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                 |   |
|-----------------|---|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
|-----------------|---|

### Conditions for safe storage, including any incompatibilities

|                              |  |
|------------------------------|--|
| <b>Storage</b>               | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Incompatible Products</b> | None known based on information supplied.                                |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

|                            |  |
|----------------------------|--|
| <b>Exposure Guidelines</b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies |
|----------------------------|--|

### Appropriate engineering controls

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Showers<br>Eyewash stations<br>Ventilation systems |
|-----------------------------|--|

### Individual protection measures, such as personal protective equipment

|                                 |   |
|---------------------------------|---|
| <b>Eye/face protection</b>      | No special protective equipment required.       |
| <b>Skin and body protection</b> | Wear protective gloves and protective clothing. |

|                               |   |
|-------------------------------|---|
| <b>Respiratory protection</b> | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene Measures</b>       | Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Oil                      | <b>Odor</b>           | Oily                     |
| <b>Appearance</b>     | Amber                    | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                               | <u>Values</u>       | <u>Remarks</u> | <u>Method</u> |
|---|---------------------|----------------|---------------|
| <b>pH</b>                                     | No data available   |                |               |
| <b>Melting / freezing point</b>               | No data available   | None known     |               |
| <b>Boiling point / boiling range</b>          | > 288°C °C / 550 °F |                |               |
| <b>Flash Point</b>                            | 218°C C / 424 F     |                |               |
| <b>Evaporation Rate</b>                       | < 0.01              | None known     |               |
| <b>Flammability (solid, gas)</b>              | No data available   | None known     |               |
| <b>Flammability Limit in Air</b>              |                     |                |               |
| <b>Upper flammability limit</b>               | No data available   |                |               |
| <b>Lower flammability limit</b>               | No data available   |                |               |
| <b>Vapor pressure</b>                         | No data available   | None known     |               |
| <b>Vapor density</b>                          | No data available   | None known     |               |
| <b>Specific Gravity</b>                       | 0.9                 |                |               |
| <b>Water Solubility</b>                       | Insoluble in water  |                |               |
| <b>Solubility in other solvents</b>           | No data available   | None known     |               |
| <b>Partition coefficient: n-octanol/water</b> | No data available   | None known     |               |
| <b>Autoignition temperature</b>               | No data available   | None known     |               |
| <b>Decomposition temperature</b>              | No data available   | None known     |               |
| <b>Kinematic viscosity</b>                    | No data available   | None known     |               |
| <b>Dynamic viscosity</b>                      | No data available   | None known     |               |
| <b>Explosive properties</b>                   | No data available   |                |               |
| <b>Oxidizing properties</b>                   | No data available   |                |               |

### Other Information

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> |                   |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

#### Component Information

| Chemical name   | Oral LD50            | Dermal LD50             | Inhalation LC50         |
|---|----------------------|-------------------------|-------------------------|
| Distillates, petroleum, hydrotreated heavy paraffinic<br>64742-54-7 | > 15 g/kg ( Rat )    | -                       | -                       |
| Residual oils (petroleum), solvent dewaxed<br>64742-62-7            | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | = 2.18 mg/L ( Rat ) 4 h |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name   | ACGIH | IARC    | NTP   | OSHA |
|---|-------|---------|-------|------|
| Distillates, petroleum, hydrotreated heavy paraffinic<br>64742-54-7 | A2    | Group 1 | Known | X    |
| Residual oils (petroleum), solvent dewaxed<br>64742-62-7            | A2    | Group 1 | Known | X    |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

|                                 |  |
|---------------------------------|--|
| <b>Reproductive toxicity</b>    | No information available.                                    |
| <b>STOT - single exposure</b>   | No information available.                                    |
| <b>STOT - repeated exposure</b> | No information available.                                    |
| <b>Chronic Toxicity</b>         | Contains a known or suspected carcinogen.                    |
| <b>Target Organ Effects</b>     | Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). |
| <b>Aspiration Hazard</b>        | No information available.                                    |

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical name   | Toxicity to Algae | Toxicity to Fish                               | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|-------------------|--|----------------------------|----------------------------|
| Distillates, petroleum, hydrotreated heavy paraffinic<br>64742-54-7 |                   | 96h LC50: > 5000 mg/L<br>(Oncorhynchus mykiss) |                            | 48h EC50: > 1000 mg/L      |
| Residual oils (petroleum), solvent dewaxed<br>64742-62-7            |                   | 96h LC50: > 5000 mg/L<br>(Oncorhynchus mykiss) |                            | 48h EC50: > 1000 mg/L      |

#### Persistence and Degradability

No information available.

#### Bioaccumulation

No information available

#### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

### 14. TRANSPORT INFORMATION

|                             |               |
|-----------------------------|---------------|
| <b>DOT</b>                  | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b>TDG</b>                  | NOT REGULATED |
| <b>MEX</b>                  | NOT REGULATED |
| <b>ICAO</b>                 | NOT REGULATED |
| <b>IATA</b>                 | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>IMDG/IMO</b>             | NOT REGULATED |
| <b>RID</b>                  | NOT REGULATED |
| <b>ADR</b>                  | NOT REGULATED |
| <b>ADN</b>                  | NOT REGULATED |

### 15. REGULATORY INFORMATION

#### International Inventories

|      |  |
|------|--|
| TSCA | Complies   |
| DSL  | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### **SARA 311/312 Hazard Categories**

|                            |    |
|----------------------------|----|
| <b>Acute Health Hazard</b> | No |
|----------------------------|----|



|  |     |
|--|-----|
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name   | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---|------------|---------------|--------------|--------------|----------|
| Distillates, petroleum, hydrotreated heavy paraffinic<br>64742-54-7 |            |               |              |              | X        |
| Residual oils (petroleum), solvent dewaxed<br>64742-62-7            |            |               |              |              | X        |

**International Regulations**

| Component  | Carcinogen Status | Exposure Limits |
|--|-------------------|-----------------|
| Distillates, petroleum, hydrotreated heavy paraffinic<br>64742-54-7 ( 50 - 80% ) | A2                |                 |
| Residual oils (petroleum), solvent dewaxed<br>64742-62-7 ( 20 - 50% )            | A2                |                 |

A2 - Suspected Human Carcinogen

**Canada**

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

|             |                          |                       |                          |   |
|-------------|--------------------------|-----------------------|--------------------------|---|
| <b>NFPA</b> | <b>Health Hazards</b> 0  | <b>Flammability</b> 1 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards - Personal Protection</b><br>X |
| <b>HMIS</b> | <b>Health Hazards</b> 1* | <b>Flammability</b> 1 | <b>Physical Hazard</b> 0 |   |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

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**Revision Note** No information available

**Disclaimer**

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**End of Safety Data Sheet**