

# SAFETY DATA SHEET

275S Dilex Supreme Hydraulic Fluid with DYNAVIS® ISO 22, 32 and 46 275SW Dilex Supreme Hydraulic Fluid with DYNAVIS® ISO 15

## **Section 1. Identification**

**GHS** product identifier

: 275S Dilex Supreme Hydraulic Fluid with DYNAVIS® ISO 22, 32 and 46

275SW Dilex Supreme Hydraulic Fluid with DYNAVIS® ISO 15

Other means of identification

: Not available.

Product type : Liquid.

#### **Identified uses**

Multi-grade anti-wear hydraulic fluid.

**Supplier's details** 

: Schaeffer Mfg. Company

102 Barton Street

Saint Louis. Missouri 63104

Tel: 314-865-4100 Fax: 314-865-4107

Toll Free: 1-800-325-9962 E-Mail: safety@schaefferoil.com Web: http://www.schaefferoil.com

Emergency telephone number (with hours of operation) : +1 314 865-4105 (24-hour response number)

## Section 2. Hazards identification

**OSHA/HCS** status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

#### **GHS** label elements

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise : None known.

classified

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name                     | %        | CAS number |
|-------------------------------------|----------|------------|
| Base Oil(s)(*)                      | 60 - 100 | See below. |
| 1-Decene, homopolymer, hydrogenated | 60 - 100 | 68037-01-4 |
| White mineral oil (petroleum)       | 1 - 5    | 8042-47-5  |
| 2,6-di-tert-Butylphenol             | 0.1 - 1  | 128-39-2   |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Base oil(s) contained in this material may be described by one or more of the following CAS Nos.: 64742-47-8, 64742-53-6, 72623-86-0.

## Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

carbon monoxide

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials: carbon dioxide

**Special protective actions** for fire-fighters

: No special measures are required.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

| Ingredient name               | Exposure limits  |
|-------------------------------|--|
| Base Oil(s)(*)                | NIOSH REL (United States, 10/2013). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist          |
|                               | ACGIH TLV (United States).  TWA: 5 mg/m³ Form: Oil mist.  STEL: 10 mg/m³ Form: Oil mist.                             |
| White mineral oil (petroleum) | OSHA PEL (United States).  TWA: 5 mg/m³ Form: Oil mist.  ACGIH TLV (United States, 4/2014).                          |
| The initial of (possion)      | TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2013). TWA: 5 mg/m³ 10 hours. Form: Mist |
|                               | STEL: 10 mg/m³ 15 minutes. Form: Mist  OSHA PEL (United States, 2/2013).  TWA: 5 mg/m³ 8 hours.                      |

**Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

**Skin protection** 

**Hand protection Body protection** 

- : Use nitrile or oil resistant gloves.
- : Personal protective clothing such as gloves, aprons, boots and complete facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

## Section 8. Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

**Respiratory protection** 

If a risk assessment indicates that respiratory protection is required, use a properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Clear.]

Color Blue. Odor : Petroleum. **Odor threshold**  Not available. рH : Not applicable. **Melting point/ Dropping** : Not available.

**Point** 

**Boiling point** : >315°C (>599°F)

Flash point : Open cup: 199 to 227°C (390.2 to 440.6°F) [Cleveland.]

**Evaporation rate** : Not available. : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive

(flammable) limits

: Not available. Vapor pressure Vapor density : >1 [Air = 1] : 0.88 Relative density

: Negligible in water. Solubility : Not available.

Partition coefficient: noctanol/water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** : Kinematic (100°C): 4 to 9.5 cSt Kinematic (40°C): 13.5 to 50.6 cSt

**Volatility** : Not available.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and

handling condtitions of temperature and pressure.

Possibility of hazardous reactions

: May react with oxygen and strong oxidizing agents, such as chlorates, peroxides, etc.

**Conditions to avoid** : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: Strong acids, bases and oxidizers.

## Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                                | Result                | Species | Dose        | Exposure |
|--|-----------------------|---------|-------------|----------|
| Distillates (petroleum), hydrotreated light naphthenic | LC50 Inhalation Vapor | Rat     | 2180 mg/m³  | 4 hours  |
|  | LD50 Oral             | Rat     | >5000 mg/kg | -        |
| White mineral oil (petroleum)                          | LD50 Oral             | Rat     | >5000 mg/kg | -        |
| 2,6-di-tert-Butylphenol                                | LD50 Dermal           | Rabbit  | >10 g/kg    | -        |
|  | LD50 Oral             | Rat     | 1320 mg/kg  | -        |

### **Irritation/Corrosion**

| Product/ingredient name                                | Result                   | Species | Score | Exposure        | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| Distillates (petroleum), hydrotreated light naphthenic | Skin - Moderate irritant | Rabbit  | -     | 24 hours 0.5 mL | -           |
| 2,6-di-tert-Butylphenol                                | Skin - Moderate irritant | Rat     | -     | 0.5 mL          | -           |

#### **Sensitization**

There is no data available.

### **Carcinogenicity**

### **Classification**

| Product/ingredient name       | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|-------------------------------|------|------|-----|-------|-----|-------|
| White mineral oil (petroleum) | -    | -    | -   | A4    | -   | -     |

### Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

| Name  | Result   |
|---|--|
| Distillates (petroleum), hydrotreated light naphthenic Distillates (petroleum), hydrotreated light Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.

# **Section 11. Toxicological information**

**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

**Potential delayed effects** 

: No known significant effects or critical hazards.

Long term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

**Potential delayed effects**: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

There is no data available.

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name                                | Result                           | Species                              | Exposure |
|--|----------------------------------|--------------------------------------|----------|
| Distillates (petroleum), hydrotreated light naphthenic | EC50 >3200 mg/L WAF              | Algae - Skeletonema costatum         | 72 hours |
|  | LC50 >3200 mg/L WAF              | Crustaceans - Acartia tonsa          | 48 hours |
|  | LC50 >1800 mg/L WAF              | Fish - Scophthalmus maximus - Embryo | 96 hours |
|  | NOEC 3200 mg/L WAF               | Algae - Skeletonema costatum         | 72 hours |
|  | NOEC 3200 mg/L WAF               | Crustaceans - Acartia tonsa          | 48 hours |
|  | NOEC 1800 mg/L WAF               | Fish - Scophthalmus maximus - Embryo | 96 hours |
| Distillates (petroleum), hydrotreated light            | Acute LC50 2200 μg/L Fresh water | Fish - Lepomis macrochirus           | 4 days   |

#### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

| Product/ingredient name                               | LogP <sub>ow</sub> | BCF | Potential    |
|---|--------------------|-----|--------------|
| 1-Decene, homopolymer, hydrogenated                   | >6.5               | -   | high         |
| White mineral oil (petroleum) 2,6-di-tert-Butylphenol | >6<br>4.5          | -   | high<br>high |

### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

## Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

|                            | DOT Classification | IMDG           | IATA           |
|----------------------------|--------------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -              | -              |
| Transport hazard class(es) | -                  | -              | -              |
| Packing group              | -                  | -              | -              |
| Environmental hazards      | No.                | No.            | No.            |
| Additional information     | -                  | -              | -              |

**AERG**: Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 8(a) PAIR: Diphenylamine; Naphthalene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Toluene; Naphthalene Clean Water Act (CWA) 311: Toluene; Naphthalene

## **Section 15. Regulatory information**

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

**Composition/information on ingredients** 

| Name  | %       |      | Sudden<br>release of<br>pressure |     | (acute)<br>health | Delayed<br>(chronic)<br>health<br>hazard |
|---|---------|------|----------------------------------|-----|-------------------|--|
| Distillates (petroleum), hydrotreated light 2,6-di-tert-Butylphenol | 1 - 5   | Yes. | No.                              | No. | No.               | No.                                      |
|   | 0.1 - 1 | No.  | No.                              | No. | Yes.              | No.                                      |

#### **SARA 313**

No products were found.

#### State regulations

Massachusetts : The following components are listed: Distillates (petroleum), hydrotreated light

naphthenic; Distillates (petroleum), hydrotreated light naphthenic

**New York**: None of the components are listed.

New Jersey : The following components are listed: White mineral oil (petroleum); Lubricating oils

(petroleum), C15-30, hydrotreated neutral oil-based; Distillates (petroleum),

hydrotreated light naphthenic; Distillates (petroleum), hydrotreated light naphthenic

**Pennsylvania**: None of the components are listed.

#### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name               | Cancer | •    |             | Maximum acceptable dosage level                      |
|-------------------------------|--------|------|-------------|--|
| Toluene                       | No.    | Yes. | No.         | 7000 µg/day (ingestion)<br>13000 µg/day (inhalation) |
| Naphthalene<br>Ethyl acrylate |        |      | Yes.<br>No. | No.<br>No.   |

## Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**

Health: 1 Flammability: 1 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller.

The customer is responsible for determining the PPE code for this material.

#### **National Fire Protection Association (U.S.A.)**

Health: 1 Flammability: 1 Instability: 0

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

US Tariff Heading Number : 2710.19.3020 Schedule B Code : 2710.19.3020

**History** 

Date of issue mm/dd/yyyy : 06/15/2015

Version : 1

Prepared by : KMK Regulatory Services Inc.

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.



Tel: +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767) www.kmkregservices.com www.askdrluc.com www.ghssmart.com

10/10