

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : 78925 - Hydraulic Oil HV ZF 32  
Product code : 78925

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Function or use category : Hydraulic fluids and additives

#### 1.3. Details of the supplier of the safety data sheet

Transnational Blenders bv  
Wieldrechtseweg 37  
NL 3316 BG Dordrecht, Netherlands, Zuid Holland  
Netherlands  
T +31 (0)78 6527652  
[technical@tnb.nl](mailto:technical@tnb.nl), [www.tnb.nl](http://www.tnb.nl)

#### 1.4. Emergency telephone number

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number   | Comment |
|--------------|--|--|--|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name  | Product identifier   | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit<br>(Note L)        | CAS-No.: 64742-54-7<br>EC-No.: 265-157-1<br>EC Index-No.: 649-467-00-8<br>REACH-no: 01-2119484627-25 | ≥ 75 – < 90 | Asp. Tox. 1, H304   |
| Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit<br>(Note L)        | CAS-No.: 64742-55-8<br>EC-No.: 265-158-7<br>EC Index-No.: 649-468-00-3<br>REACH-no: 01-2119487077-29 | ≥ 15 – < 25 | Asp. Tox. 1, H304   |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit<br>(Note L) | CAS-No.: 64742-65-0<br>EC-No.: 265-169-7<br>EC Index-No.: 649-474-00-6<br>REACH-no: 01-2119471299-27 | ≥ 1 – < 3   | Asp. Tox. 1, H304   |

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| Self protection of the first- aider   | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after inhalation   | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after skin contact | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after eye contact  | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after ingestion    | : After adequate first aid, no further treatment is required unless symptoms reappear. |

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

Treat symptomatically.

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.  
Firefighting instructions : Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 7.2. Conditions for safe storage, including any incompatibilities

|                            |   |
|----------------------------|---|
| Technical measures         | : Provide local exhaust or general room ventilation.                        |
| Storage conditions         | : Keep cool. Protect from sunlight.   |
| Storage temperature        | : $\leq 40^{\circ}\text{C}$   |
| Storage area               | : Store in a well-ventilated place. Store away from heat.                   |
| Special rules on packaging | : Keep only in original container. Store in a closed container.             |
| Packaging materials        | : Always store product in container of same material as original container. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

##### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                     |
|----------|---------------------|
| IOEL TWA | 5 mg/m <sup>3</sup> |
|----------|---------------------|

##### Ireland - Occupational Exposure Limits

|         |                                |
|---------|--------------------------------|
| OEL TWA | 5 ppm Form: Inhalable fraction |
|---------|--------------------------------|

##### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                     |
|----------|---------------------|
| IOEL TWA | 5 mg/m <sup>3</sup> |
|----------|---------------------|

|           |                      |
|-----------|----------------------|
| IOEL STEL | 10 mg/m <sup>3</sup> |
|-----------|----------------------|

##### Ireland - Occupational Exposure Limits

|         |                                |
|---------|--------------------------------|
| OEL TWA | 5 ppm Form: inhalable fraction |
|---------|--------------------------------|

##### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                     |
|----------|---------------------|
| IOEL TWA | 5 mg/m <sup>3</sup> |
|----------|---------------------|

|           |                      |
|-----------|----------------------|
| IOEL STEL | 10 mg/m <sup>3</sup> |
|-----------|----------------------|

##### Ireland - Occupational Exposure Limits

|         |                                |
|---------|--------------------------------|
| OEL TWA | 5 ppm Form: inhalable fraction |
|---------|--------------------------------|

### 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

#### Personal protective equipment symbol(s):



# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Eye and face protection

#### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0.35          |             | EN ISO 374 |

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                                  | : Liquid                                      |
| Colour  | : Yellow-brown.                               |
| Odour   | : Not available                               |
| Odour threshold                                 | : Not available                               |
| Melting point                                   | : Not applicable                              |
| Freezing point                                  | : -42 °C (ASTM D7346)                         |
| Boiling point                                   | : Not available                               |
| Flammability                                    | : Non flammable.                              |
| Lower explosion limit                           | : Not available                               |
| Upper explosion limit                           | : Not available                               |
| Flash point                                     | : > 201 °C (ASTM D92)                         |
| Auto-ignition temperature                       | : Not available                               |
| Decomposition temperature                       | : Not available                               |
| pH  | : Not available                               |
| Viscosity, kinematic                            | : 31.9 mm <sup>2</sup> /s @ 40°C (ASTM D7042) |
| Solubility                                      | : insoluble in water.                         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                               |
| Vapour pressure                                 | : Not available                               |
| Vapour pressure at 50°C                         | : Not available                               |
| Density   | : 862 kg/m <sup>3</sup> @ 15°C (ASTM D4052)   |
| Relative density                                | : Not available                               |
| Relative vapour density at 20°C                 | : Not available                               |
| Particle characteristics                        | : Not applicable                              |

### 9.2. Other information

No additional information available

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

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

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|                 |   |
|-----------------|---|
| LD50 oral (rat) | > 5000 mg/kg 401 Acute Oral Toxicity Test |
|-----------------|---|

|                      |   |
|----------------------|---|
| LD50 dermal (rabbit) | > 5000 mg/kg 402 Acute Dermal Toxicity Test |
|----------------------|---|

|   |   |
|---|---|
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test |
|---|---|

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

|                 |   |
|-----------------|---|
| LD50 oral (rat) | > 5000 mg/kg 401 Acute Oral Toxicity Test |
|-----------------|---|

|                      |   |
|----------------------|---|
| LD50 dermal (rabbit) | > 5000 mg/kg 402 Acute Dermal Toxicity Test |
|----------------------|---|

|   |   |
|---|---|
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test |
|---|---|

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|                 |   |
|-----------------|---|
| LD50 oral (rat) | > 5000 mg/kg 401 Acute Oral Toxicity Test |
|-----------------|---|

|                      |   |
|----------------------|---|
| LD50 dermal (rabbit) | > 5000 mg/kg 402 Acute Dermal Toxicity Test |
|----------------------|---|

|   |  |
|---|--|
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5 mg/l/4h 403 Acute Inhalation Toxicity Test |
|---|--|

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|                            |   |
|----------------------------|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
|----------------------------|---|

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

|                                     |   |
|-------------------------------------|---|
| LOAEL (oral, rat, 90 days)          | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (subacute, oral, 28 days)     | 100 mg/kg bodyweight/day  |
| NOAEL (dermal, rat/rabbit, 90 days) | ≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)            |

### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|                            |   |
|----------------------------|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
|----------------------------|---|

Aspiration hazard : Not classified

## 78925 - Hydraulic Oil HV ZF 32

|                      |   |
|----------------------|---|
| Viscosity, kinematic | 31.9 mm <sup>2</sup> /s @ 40°C (ASTM D7042) |
|----------------------|---|

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|                      |                                 |
|----------------------|---------------------------------|
| Viscosity, kinematic | < 20.5 mm <sup>2</sup> /s @40°C |
|----------------------|---------------------------------|

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

|                      |   |
|----------------------|---|
| Viscosity, kinematic | 150 (1.99 – 847) mm <sup>2</sup> /s @40°C |
|----------------------|---|

### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|                      |                                |
|----------------------|--------------------------------|
| Viscosity, kinematic | 20.8 mm <sup>2</sup> /s @ 40°C |
|----------------------|--------------------------------|

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|                        |   |
|------------------------|---|
| LC50 - Fish [1]        | > 100 mg/l Pimephales promelas (OECD 203)                 |
| EC50 - Crustacea [1]   | > 1000 mg/l Daphnia magna (OECD 202)                      |
| EC50 72h - Algae [1]   | > 100 mg/l Pseudokirchneriella subcapitata (OECD 201)     |
| NOEC chronic fish      | 1000 mg/l Oncorhynchus mykiss (14d)                       |
| NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) (OECD 211)                    |
| NOEC chronic algae     | 100 mg/l Pseudokirchneriella subcapitata (72h) (OECD 201) |

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

|                 |                                |
|-----------------|--------------------------------|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
|-----------------|--------------------------------|

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |   |
|--|---|
| EC50 - Crustacea [1]   | > 10000 mg/l Daphnia magna                            |
| EC50 72h - Algae [1]   | > 100 mg/l Pseudokirchneriella subcapitata (OECD 201) |
| NOEC chronic fish  | > 1000 mg/l Oncorhynchus mykiss (14d)                 |
| NOEC chronic crustacea   | 10 mg/l Daphnia magna (21d)                           |
| NOEC chronic algae   | 100 mg/l Pseudokirchneriella subcapitata (72h)        |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |                                |
|---|--------------------------------|
| LC50 - Fish [1]   | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1]  | > 10000 mg/l Daphnia magna     |
| EC50 72h - Algae [1]  | > 100 mg/l                     |

## 12.2. Persistence and degradability

| 78925 - Hydraulic Oil HV ZF 32 |                    |
|--------------------------------|--------------------|
| Persistence and degradability  | Rapidly degradable |

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                           |
|---|---------------------------|
| Persistence and degradability                                       | Inherently biodegradable. |
| Biodegradation  | 31 % OECD TG 301 F (28d)  |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |                            |
|--|----------------------------|
| Persistence and degradability  | Not readily biodegradable. |
| Biodegradation   | < 31 % OECD TG 301 F (28d) |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |                            |
|---|----------------------------|
| Persistence and degradability                                       | Not rapidly degradable     |
| Biodegradation  | < 31 % OECD TG 301 F (28d) |

## 12.3. Bioaccumulative potential

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)    |     |
|--|-----|
| Partition coefficient n-octanol/water (Log Pow)                        | > 6 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |     |
| Bioconcentration factor (BCF REACH)                                    | 260 |

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.  |
| European List of Waste (LoW, EC 2000/532)  | : 13 01 10* - mineral based non-chlorinated hydraulic oils   |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not regulated

##### Air transport

Not regulated

##### Inland waterway transport

Not regulated

##### Rail transport

Not regulated

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

###### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

| Indication of changes |   |          |
|-----------------------|---|----------|
| Section               | Changed item  | Comments |
|                       | Revision date   | Modified |
|                       | Supersedes  | Modified |
| 1.1                   | Name  | Added    |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Removed  |
| 2.1                   | Adverse physicochemical, human health and environmental effects | Modified |
| 2.2                   | EUH-statements  | Added    |
| 2.2                   | Precautionary statements (CLP)                                  | Removed  |
| 2.2                   | Hazard statements (CLP)   | Removed  |
| 2.3                   | Other hazards not contributing to the classification            | Removed  |
| 3                     | Composition/information on ingredients                          | Modified |
| 4.1                   | First-aid measures for first aider                              | Added    |

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes |   |                 |
|-----------------------|---|-----------------|
| Section               | Changed item                              | Comments        |
| 4.1                   | First-aid measures general                | <b>Added</b>    |
| 5.2                   | Explosion hazard                          | <b>Added</b>    |
| 5.2                   | Fire hazard                               | <b>Added</b>    |
| 5.3                   | Firefighting instructions                 | <b>Modified</b> |
| 6.1                   | General measures                          | <b>Added</b>    |
| 6.1                   | Emergency procedures                      | <b>Added</b>    |
| 6.3                   | For containment                           | <b>Modified</b> |
| 7.1                   | Additional hazards when processed         | <b>Added</b>    |
| 7.1                   | Handling temperature                      | <b>Removed</b>  |
| 7.1                   | Precautions for safe handling             | <b>Modified</b> |
| 7.2                   | Packaging materials                       | <b>Added</b>    |
| 7.2                   | Storage conditions                        | <b>Modified</b> |
| 9                     | Viscosity, kinematic                      | <b>Modified</b> |
| 9                     | Freezing point                            | <b>Modified</b> |
| 9                     | Flash point                               | <b>Modified</b> |
| 9                     | Colour                                    | <b>Modified</b> |
| 9                     | Density                                   | <b>Modified</b> |
| 10.5                  | Incompatible materials                    | <b>Added</b>    |
| 12.1                  | Ecology - general                         | <b>Modified</b> |
| 13.1                  | European List of Waste (LoW, EC 2000/532) | <b>Added</b>    |
| 13.1                  | Sewage disposal recommendations           | <b>Added</b>    |
| 13.1                  | Additional information                    | <b>Added</b>    |
| 13.1                  | Regional waste regulation                 | <b>Added</b>    |
| 13.1                  | Waste disposal recommendations            | <b>Modified</b> |

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |

# 78925 - Hydraulic Oil HV ZF 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disruptor  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Asp. Tox. 1                         | Aspiration hazard, Category 1                 |
| H304                                | May be fatal if swallowed and enters airways. |
| EUH210                              | Safety data sheet available on request.       |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.