MATERIAL SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  

SDS #: 32576  
VISGA 32  

Date of the previous version: 2012-04-26  
Revision Date: 2012-05-14  
Version 4  

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

1.1. Product identifier  
Product name: VISGA 32  
Number: HJB  
Pure substance/mixture: Mixture  

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Identified uses: Hydraulic oil.  

1.3. Details of the supplier of the safety data sheet  
Supplier: TOTAL LUBRIFIANTS  
562 Avenue du Parc de L’île  
92029 Nanterre Cedex  
Tél: +33 (0)1 41 35 40 00  
Fax: +33 (0)1 41 35 84 71  

For further information, please contact  
Contact Point: HSE  
E-mail Address: rm.msds-lubs@total.com  

1.4. Emergency telephone number  
+33 1 49 00 00 49 (24h/24, 7d/7)  
France : - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48, -  
MARSEILLE : Hopital Salvador, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hospital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)  

2. HAZARDS IDENTIFICATION  

2.1. Classification of the substance or mixture  
REGULATION (EC) No 1272/2008  
For the full text of the H-Statements mentioned in this Section, see Section 2.2.  

DIRECTIVE 67/548/EEC or 1999/45/EC  
For the full text of the R-phrases mentioned in this Section, see Section 16  

Version EU
The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments
Symbol(s)
Not Classified

### 2.2. Label elements

Labelled according to: **Not classified/No labelling required**

R-phrase(s)
none

S-phrase(s)
none

### 2.3. Other hazards

Physical-Chemical Properties  
Contaminated surfaces will be extremely slippery.

Environmental properties  
Should not be released into the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>REACH registration No:</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification (Dir. 67/548)</th>
<th>Classification (Reg. 1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc, bis[O,O-bis(2-ethylhexyl)phosphorodithioato-S,S']-, (T-4)-</td>
<td>224-235-5</td>
<td>01-2119493635-27</td>
<td>4259-15-8</td>
<td>&lt;0.45</td>
<td>Xi;R41,R51-53</td>
<td>Aquatic Chronic 2 (H411) Eye Dam. 1 (H318)</td>
</tr>
<tr>
<td>2,6-di-tert-butylphenol</td>
<td>204-884-0</td>
<td>no data available</td>
<td>128-39-2</td>
<td>&lt;0.2</td>
<td>Xi;R38 N;R50-53</td>
<td>Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)</td>
</tr>
</tbody>
</table>

Additional information  
Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

For the full text of the R-phrases mentioned in this Section, see Section 16  
For the full text of the H-Statements mentioned in this Section, see Section 16.
4. FIRST AID MEASURES

4.1. Description of first-aid measures

**General advice**
IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact**
Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact**
Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.

**Inhalation**
Move to fresh air

**Ingestion**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

**Eye contact**
Not classified.

**Skin contact**
Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Inhalation**
Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion**
Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Notes to physician**
Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

**Suitable Extinguishing Media**
Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

**Unsuitable Extinguishing Media**
Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture
**5.3. Advice for fire-fighters**

**Special protective equipment for fire-fighters**  
Wear self-contained breathing apparatus and protective suit

**Other information**  
Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**6. ACCIDENTAL RELEASE MEASURES**

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

**General Information**  
Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**6.2. Environmental precautions**

**General Information**  
Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

**6.3. Methods and materials for containment and cleaning up**

**Methods for cleaning up**  
Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

**Personal Protective Equipment**  
See Section 8 for more detail

**Waste treatment**  
See section 13

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**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**
SDS # : 32576

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<table>
<thead>
<tr>
<th>Advice on safe handling</th>
<th>When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention of fire and explosion</td>
<td>Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.</td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Technical measures/Storage conditions</th>
<th>Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials to Avoid</td>
<td>Strong oxidizing agents.</td>
</tr>
</tbody>
</table>

### 7.3. Specific end uses

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Exposure limits</th>
<th>oil mist : 10mg/m³, for 15 minutes; oil mist : 5mg/m³, for 8 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legend</td>
<td>See section 16</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**Occupational Exposure Controls**
Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 141). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Eye Protection

If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Hand Protection

Hydrocarbon-proof gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

Environmental exposure controls

General Information

The product should not be allowed to enter drains, water courses or the soil

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>limpid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>char.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>230 °C</td>
<td></td>
<td>Cleveland Open Cup (COC)</td>
</tr>
<tr>
<td></td>
<td>446 °F</td>
<td></td>
<td>Cleveland Open Cup (COC).</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
**10.1. Reactivity**

General Information  
No information available.

**10.2. Chemical stability**

Stability  
Stable under recommended storage conditions

**10.3. Possibility of hazardous reactions**

Hazardous Reactions  
None under normal processing

**10.4. Conditions to Avoid**

Conditions to Avoid  
Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

**10.5. Incompatible Materials**

Materials to Avoid  
Strong oxidizing agents.

**10.6. Hazardous Decomposition Products**

Hazardous Decomposition Products  
None under normal use
11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity  Local effects  Product Information

Skin contact  Not classified.  High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

Eye contact  Not classified.

Inhalation  Not classified.  Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion  Not classified.  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity  Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc, bis[O,O-bis(2-ethylhexyl)] phosphorodithioato-S,S’]-, (T-4)-</td>
<td>= 3100 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>2,6-di-tert-butylphenol</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>= 10000 mg/kg (Rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

Sensitization

Sensitization  Not classified as a sensitizer.

Specific effects

Carcinogenicity  This product is not classified carcinogenic.

Mutagenicity  This product is not classified as mutagenic.

Reproductive toxicity  This product does not contain any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity  No information available.

Target Organ Effects (STOT)

No information available.
12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity  Product Information
No information available.

Acute aquatic toxicity  Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc, bis(O,O-bis(2-ethylhexyl) phosphorodithioato-S,S')-, (T-4)- 4259-15-8</td>
<td>EC50 (96h) 1.0 - 5.0 mg/L Pseudokirchneriella subcapitata</td>
<td>EC50 (48h) 1 - 1.5 mg/L Daphnia magna</td>
<td>LC50 (96h) 1.0-5.0 mg/L Pimephales promelas (static) LC50 (96h) 10.0-35.0 mg/L Pimephales promelas (semi-static)</td>
<td></td>
</tr>
<tr>
<td>2,6-di-tert-butylphenol 128-39-2</td>
<td></td>
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<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity  Product Information
No information available.

Chronic aquatic toxicity  Component Information
No information available.

Effects on terrestrial organisms
No information available.

12.2. Persistence and degradability

General Information
No information available

12.3. Bioaccumulative potential
12.4. Mobility in soil

Soil
Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air
Loss by evaporation is limited.

Water
Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment
No information available.

12.6. Other adverse effects

General Information
No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products
Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal

EWC Waste Disposal No.
The following Waste Codes are only suggestions:. 13 01 10. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

ADR/RID
Not regulated
15. REGULATORY INFORMATION

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

European Union

International Inventories

EINECS/ELINCS -
TSCA -
DSL -
ENCS -
IECSC -
KECL -
PICCS -
AICS -
NZIoC -

Legend
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available
16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R41 - Risk of serious damage to eyes
R38 - Irritating to skin
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under section 2 and 3
H318 - Causes serious eye damage
H315 - Causes skin irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Abbreviations, acronyms

Legend  Section 8
+ Sensitizer  * Skin designation
** Hazard Designation  C: Carcinogen
M: Mutagen  R: Toxic to reproduction

Revision Date: 2012-05-14
Revision Note: *** Indicates updated section
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet