



MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30552

MULTIS XHV 2

Date of the previous version: not applicable

Revision Date: 2011-01-12

Version 1

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

1.1. Product identifier

| | |
|-------------------------------|---------------------|
| Product name | MULTIS XHV 2 |
| Number | HNL |
| Pure substance/mixture | Mixture |

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

Identified uses Lubricating grease, Extreme pressure.

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

ORFILA Tél : 01.45.42.59.59

In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. - MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Hédouard Herriot, 5 place d'Arsonvil, 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.

Classification

DIRECTIVE 67/548/EEC or 1999/45/EC

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For the full text of the R-phrases mentioned in this Section, see Section 16

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

Symbol(s)

Not Classified

2.2. Label elements

Labelled according to: Not classified/No labelling required

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

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| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
|---|

3.2. Mixtures

| Chemical Name | EC-No | REACH registration No: | CAS-No | Weight % | Classification (Dir. 67/548) | Classification (Reg. 1272/2008) |
|---|-----------|------------------------|------------|----------|------------------------------|---------------------------------|
| Zinc alkyl dithiophosphate | 272-028-3 | no data available | 68649-42-3 | <2.5 | Xi;R38 Xi;R41 N;R51-53 | |
| Hydrocarbon waxes (petroleum), oxidized | 265-205-1 | no data available | 64743-00-6 | <2.5 | R53 | |

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.

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| 4. FIRST AID MEASURES |
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4.1. Description of first-aid measures

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| General advice | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. |
| Eye contact | Rinse immediately with plenty of water and seek medical advice. |
| Skin contact | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. |
| Inhalation | Move to fresh air |
| Ingestion | Do NOT induce vomiting. Call a physician or Poison Control Center immediately. |

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

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|-------------------|--|
| Inhalation | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | 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 MEASURES5.1. Extinguishing media

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|---------------------------------------|--|
| Suitable Extinguishing Media | Foam. Carbon dioxide (CO ₂). ABC powder. |
| 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

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|-----------------------|--|
| Special Hazard | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
|-----------------------|--|

5.3. Advice for fire-fighters

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| 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. |

6. ACCIDENTAL RELEASE MEASURES

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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.

6.2. Environmental precautions

General Information Do not flush into surface water or sanitary sewer system. 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 Collect free product with suitable mechanical means. 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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. Wear suitable protective clothing: For personal protection see section 8. Remove all sources of ignition.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions 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. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid Strong oxidizing agents.

7.3. Specific end uses

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits oil mist : 10mg/m³, for 15 minutes oil mist : 5mg/m³, for 8 hours

Legend See section 16

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 gloves, 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

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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**

| | | | |
|---|----------------|--------------------------|---------------|
| Appearance | | smooth | |
| Color | | brown clear | |
| Physical State @20°C | | solid | |
| Odor | | Characteristic | |
| Property | Values | Remarks | Method |
| pH | | Not applicable | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | | Not applicable | |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| Vapor Pressure @20°C (kPa) | | No information available | |
| Vapor density | | No information available | |
| Density | | no data available | |
| Water solubility | | Insoluble | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | | Not applicable | |
| Viscosity, kinematic | | Not applicable | |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | Not applicable | | |

9.2. Other information

| | | | |
|--------------------------|------------------|---------|------------|
| Penetration index | 265 - 295 1/10mm | @ 25 °C | ASTM D 217 |
| Drop point | > 185 °C | | ISO 2176 |

10. STABILITY AND REACTIVITY**10.1. Reactivity**

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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 Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

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| 11. TOXICOLOGICAL INFORMATION |
|-------------------------------|

11.1. Information on toxicological effectsAcute toxicity Local effects, Product Information

Skin contact Not classified.

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 InformationSensitization

Sensitization Not classified as a sensitizer.

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Specific effects

Carcinogenicity This product is not classified carcinogenic.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)**Other information**

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION**12.1. Toxicity****Acute aquatic toxicity Product Information**

No information available.

Acute aquatic toxicity Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|--|-------------------|---|---|----------------------------|
| Zinc alkyl dithiophosphate 68649-42-3 | | EC50 (48h) 1 - 1.5 mg/L Daphnia magna | LC50 (96h) 1.0-5.0 mg/L Pimephales promelas (static) LC50 (96h) 10.0-35.0 mg/L Pimephales promelas (semi-static) | |

Chronic aquatic toxicity Product Information

No information available.

Chronic aquatic toxicity Component Information

No information available.

Effects on terrestrial organisms

No information available.

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12.2. Persistence and degradability**General Information**

No information available

12.3. Bioaccumulative potential**Product Information**

No information available

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No information available.

Component Information12.4. Mobility in soil**Soil**

Given its physical and chemical characteristics, the product has no soil mobility.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

No information available.

12.6. Other adverse effects**13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from Residues / Unused Products**

Dispose of in accordance with the European Directives on waste and hazardous waste.

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: 12 01 12.

Other information

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

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| | |
|------------------|---------------|
| <u>ADR/RID</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>ICAO/IATA</u> | Not regulated |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION

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

European Union

Other regulations

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

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

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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**

R53 - May cause long-term adverse effects in the aquatic environment

R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Abbreviations, acronyms

Legend Section 8

| | | | |
|----|--------------------|----|-----------------------|
| + | Sensitizer | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

Revision Date: 2011-01-12**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 fulfil 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