

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 31453

PRESLIA 68

Date of the previous version: not applicable

Revision Date: 2011-11-24

Version 1

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

1.1. Product identifier

| Product name | PRESLIA 68 |
|------------------------|------------|
| Number | 694 |
| Pure substance/mixture | Mixture |

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

Identified uses

Turbine oil.

1.3. Details of the supplier of the safety data sheet

| Supplier | TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 |
|----------|--|
| | 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 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.

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

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

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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

| Chemical nature | Base oil with additives. |
|------------------------|---|
| 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.

4.1. 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. If conscious, give 2 glasses of water. Get immediate medical attention |

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

| Eye contact | Not classified. Avoid contact with eyes. |
|--------------|--|
| Skin contact | Not classified. Avoid contact with skin. |
| 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 MEASURE | S | | |
| 5.1. Extinguishing media | | | |
| Suitable Extinguishing Media | Use CO2, dry chemical, or foam. | | |
| 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 | | | |
| Special Hazard | Vapors may form explosive mixtures with air. The colourless vapour is heavier than air, spreads along the ground and distant ignition is possible. | | |
| 5.3. Advice for fire-fighters | | | |

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



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| 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 |
| 6.1. Personal precautions | s, protective equipment and emergency procedures |
| General Information | Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Contaminated surfaces will be extremely slippery. |
| 6.2. Environmental preca | utions |
| General Information | Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. |
| 6.3. Methods and materia | als for containment and cleaning up |
| Methods for cleaning up | Dam up. Soak up with inert absorbent material. After cleaning, flush away traces with water. 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). |
| 6.4. Reference to other s | ections |
| Personal Protective Equipment | See Section 8 for more detail |
| Waste treatment | See section 13 |
| 7. HANDLING AND STORA | GE |
| 7.1. Precautions for safe | handling |
| Advice on safe handling | Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. |

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Do not put product contaminated rags into workwear pockets.

Do not breathe vapors or spray mist. Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities



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| Technical measures/Storage conditions | Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilate place. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Keep away from food drink and animal feedingstuffs. Keep in a bunded area. Protect from moisture. Store in original container. |
| Materials to Avoid | Strong oxidizing agents. |
| 7.3. Specific end uses | |
| Specific use(s) | No information available. |
| 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 |

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

(EN 141). The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

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| Skin and body protection | Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing. | |
| Hand Protection | Hydrocarbon-proof gloves. Neoprene gloves, Nitrile rubber. 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

| Color Physical State @20°C Odor <u>Property</u> pH Boiling point/boiling range | Values | yellow To amber liquid Characteristic Remarks Not applicable No information available | Method |
|--|--|---|---|
| | | | |
| Flash point | > 220 °C > 428 °F | | Cleveland Open Cup (COC) Cleveland Open Cup (COC). |
| Evaporation rate | | No information available | |
| Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature | 887 kg/m³ > 6 > 250 °C | No information available No information available No information available @ 15 °C Insoluble No information available @ 20 °C | ASTM E 659-78 |
| Autoignition temperature | > °F | | ASTM E 659-78 |
| Viscosity, kinematic | > F 68 mm2/s | @ 40 °C | ISO 3104 |
| Explosive properties | Not explosive | | |



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| Oxidizing Properties | Not applicable |
|------------------------------------|--------------------------|
| Possibility of hazardous reactions | No information available |

9.2. Other information

| 10. STABILITY AND REACT | IVITY | |
|--|---|--|
| 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, flames and sparks. Take precautionary measures against static discharges. 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 Product | s Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. | |
| 11. TOXICOLOGICAL INFORMATION | | |
| 11.1. Information on toxico | ological effects | |

Acute toxicity Local effects Product Information

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Skin contact Not classified. Avoid contact with skin.

Eye contact Not classified. Avoid contact with eyes.



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| 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 Informa | tion | | |
| | | | |
| 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) | | | |
| Target Organ Effects (STOT) | No information available. | | |
| 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

Not classified.

Acute aquatic toxicity Product Information No information available.



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Acute aquatic toxicity Component Information No information available.

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 product level data available. However the "mineral oil" fraction of the new product is inherently biodegradable.

12.3. Bioaccumulative potential

| Product Information | No information available |
|---------------------------------|---|
| logPow Component Information | > 6 @ 20 °C No information available. |
| 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

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General Information No information available.



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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. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. |
|--|--|
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal |
| EWC Waste Disposal No. | 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. The following Waste Codes are only suggestions:. 13 02 05. |

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

European Union

International Inventories

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EINECS/ELINCS TSCA

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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

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Further information

15.2. Chemical Safety Assessment

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No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 No information available

Abbreviations, acronyms

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

| Revision Da | 2011-11-24 |
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| Revision No | *** Indicates updated section |
| This safety of | ta sheet complies with the requirements of Regulation (EC) No. 1907/2006 |



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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