

**Date Revised : February 23, 2011** **Replaces Version of : 03-03-2088**

# Four Seasons Part Numbers 59007 / 409503

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

| | |
|---|---|
| **Product Name** | **ZEROL® PREMIUM PAG 46** |
| **Product Use** | Lubricant |
| **Supplier** | Shrieve Products International Ltd,<br>Suite 21, 70 Churchill Square, Kings Hill, West Malling, Kent ME19 4YU, United Kingdom. |
| **Contact Numbers** | Tel. 1 800 367 4226 Tel. +44 (0) 1732 520600 Fax. +44 (0) 1732 520601 |
| **Emergency Telephone Number** | NCEC: +44 (0) 1865 407333 |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---|---|
| **Description** | Polyalkylene glycol alkyl ether |
| **Dangerous Components** | Not applicable. |
| **Chemical characterization** | |
| **Additional information:** | All components are either EINECS listed or classified as polymers. |

## 3. HAZARDS IDENTIFICATION

| | |
|---|---|
| **Hazard description** | Not classified as hazardous. |

## 4. FIRST AID MEASURES

| | |
|---|---|
| **General information** | Immediately remove any clothing soiled by the product. |
| **After inhalation:** | Remove from exposure Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. |
| **After skin contact:** | Immediately wash with water and soap and rinse thoroughly. |
| **After eye contact:** | Rinse opened eye for several minutes under running water. Then consult a doctor. |

| | |
|---|---|
| **Ingestion** | If swallowed, do not induce vomiting. Wash out the mouth with water. Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing. Obtain medical attention. |

## 5. FIRE FIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing agents:** | Water spray, carbon dioxide, Fire-extinguishing powder, or alcohol resistant foam. |
| **Unsuitable extinguishing media** | Water with full jet |
| **Special hazards caused by the substance, its products of combustion or resulting gases:** | Formation of toxic gases is possible during heating or in case of fire. |
| **Protective equipment:** | Wear self-contained breathing apparatus. |
| **Additional information**. | Keep containers and surroundings cool with water spray. |

## 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Person-related safety precautions:** | Wear protective clothing. |
| **Measures for environmental protection:** | Do not allow product to reach sewage system or any water course.<br>Inform authorities in case of seepage into water course or sewage system. |
| **Measures for cleaning/collecting:** | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).<br>Send for recovery or disposal in suitable containers. |
| **Additional information:** | See Section 8 for information on personal protection equipment. |

## 7. HANDLING AND STORAGE

**Handling**

| | |
|---|---|
| **Information for safe handling:** | Store in cool, dry place in tightly closed containers. |



| | |
|---|---|
| | Use only in well ventilated areas.<br><br>Avoid breathing mist or vapour from heated material.<br><br>Local exhaust ventilation should be provided if there is risk of mist or aerosol formation. |
| **Information about fire - and explosion protection:** | The product is not flammable. |

**Storage**

| | |
|---|---|
| **Requirements to be met by storerooms and receptacles:** | Suitable storage materials are:<br>mild steel.<br>stainless steel. |
| **Information about storage in one common storage facility:** | Store away from oxidizing agents.<br>Store away from reducing agents. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---|---|
| **Ingredients with limit values that require monitoring at the workplace:** | The product does not contain any relevant quantities of materials with critical values that have to be monitored at<br><br>the workplace. |
| · **Personal protective equipment:** | Use with adequate ventilation. |
| **General protective and hygienic measures:** | Do not inhale gases / fumes / aerosols.<br><br>Avoid contact with the eyes and skin. |
| **Respiratory Protection** | Respiratory protection if there is risk of breathing mists or vapours from heated material.<br><br>Respiratory protection if there is risk of uncontrolled exposure to aerosols. |
| **Recommended filter device for short term use:** | combination filter A-P3 |
| **Hand Protection** | PVC gloves - recommended material thickness: at least 1.1 mm.<br>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |
| **Eye Protection** | Chemical goggles must be worn during all handling operations.. |

| | |
|---|---|
| **Body Protection** | Protective work clothing |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical State** | Liquid |
| **Appearance** | Clear |
| **Odour** | Characteristic |
| **Boiling point initial** | Decomposes before boiling |
| **Melting point** | Not determined |
| **Pour point** | <-30℃ |
| **Flash point (COC)** | >200℃ |
| **Self-igniting:** | Product is not selfigniting. |
| **Danger of explosion:** | Product does not present an explosion hazard. |
| **Vapour Pressure** | Neglible vapour pressure at ambient conditions |
| **Relative Density** | 1.000 g/cm(3) at 20℃ (typical) |
| **Solubility in water** | Partially Soluble |
| **Viscosity at 40℃** | 49 cSt (typical) |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability** | Stable under normal conditions of use.<br>Can decompose slowly with localised heating above 150℃. |
| **Dangerous reactions** | Reacts with strong acids and oxidizing agents. Toxic fumes may be released if heated above the decomposition point. |
| **Dangerous decomposition products:** | Carbon monoxide and carbon dioxide<br>Aldehyde. |

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute toxicity: | Information given is based on the major component. |
| **LD/LC50 values relevant for classification:** | Oral LD50 (rat) > 500 mg/kg |
| **Primary irritant effect:** | |
| **on the skin:** | Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. |
| on the eye: | may cause slight transient irritation. |
| **Sensitization** | No sensitizing effects known. |
| **Additional toxicological information** | Swallowing may have the following effects:<br>Irritation of mouth, throat and respiratory tract.<br>Vomiting.<br>Diarrhoea.<br>Exposure to vapour at high concentrations may have the following effects:<br>irritation of nose, throat and respiratory tract.<br>Low volatility makes acute effects unlikely at ambient temperatures.<br>Repeated exposure to aerosols may result in lung damage.<br><br>This product did not exhibit mutagenic activity in the following systems (with and without metabolic activation): Salmonella typhimurium (based on major component) |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Behaviour in environmental systems: | |
| **Other information** | Product is not expected to bioaccumulate.<br><br>Product is expected to be partially or slowly biodegradable. |
| **Ecotoxical effects** | |
| **Aquatic toxicity:** | No data. |
| **General notes** | Water hazard class 2 (German Regulation) : hazardous for water.<br>Do not allow product to reach ground water, water course or sewage system. |

## 13. DISPOSAL CONSIDERATIONS

**Product:**

| | |
|---|---|
| **Recommendation** | Dispose of in accordance with all applicable local and national regulations.<br><br>Incineration is the recommended method of disposal.<br><br>Must not be disposed together with household rubbish. Do not allow product to reach sewage system.. |
| **Uncleaned packaging:** | |
| **Recommendation** | Labels should not be removed from containers until they have been cleaned.<br><br>Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.<br><br>Disposal must be in accordance with local regulations. |
| **Recommended cleansing agents** | Water - with cleansing agents if required. |
| **Local Legislation** | The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with. |

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **Transport/Additional information:** | Not classified as dangerous for transport. |

## 15. REGULATORY INFORMATION

| | |
|---|---|
| **Labelling according to EU guidelines:** | The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version. |
| **National regulations:** | All components listed.<br><br>USA – TSCA<br>Australia – AICS<br>Canada – DSL<br>Korea<br>Philippines – PICCS<br>China |

## 16. OTHER INFORMATION

| | |
|---|---|
| **SDS Distribution** | The information in this document should be made available to all who may handle the product. |
| **SDS Preparation** | This Safety Data Sheet has been prepared in accordance with the requirements of the Data Sheet Directive 91/155/EEC and the amendments 93/112/EC and 2001/58/EC. |

The information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.