



Date Revised : February 23, 2011

Replaces Version of : March 3, 2008

Four Seasons Part Numbers 59002 / 409502 : 59077 / 409975 /801652

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

Product Name	ZEROL® PREMIUM PAG 100
Product Use	Lubricant
Supplier	Shrieve Products International Ltd, 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.
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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.



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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.
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).
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.



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	Use only in well ventilated areas.
	Avoid breathing mist or vapour from heated material.
	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: mild steel. stainless steel.
Information about storage in one common storage facility:	Store away from oxidizing agents. 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 the workplace.
Personal protective equipment:	Use with adequate ventilation.
General protective and hygienic measures:	Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
Respiratory Protection	Respiratory protection if there is risk of breathing mists or vapours from heated material. 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. 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..



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Body Protection	Protective work clothing
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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 °C
Flash point (COC)	>200 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapour Pressure	Negligible vapour pressure at ambient conditions
Relative Density	0.999 g/cm(3) at 20 °C (typical)
Solubility in water	Partially Soluble
Viscosity at 40 °C	107 cSt (typical)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use. Can decompose slowly with localised heating above 150 °C.
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 Aldehyde.



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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 - <2000 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:
Irritation of mouth, throat and respiratory tract.
Vomiting.
Diarrhoea.

Exposure to vapour at high concentrations may have the following effects:
irritation of nose, throat and respiratory tract.
Low volatility makes acute effects unlikely at ambient temperatures.
Repeated exposure to aerosols may result in lung damage.

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.

Product is expected to be partially or slowly biodegradable.

Ecotoxicological effects

Aquatic toxicity: No data.

General notes

Water hazard class 2 (German Regulation) : hazardous for water.
Do not allow product to reach ground water, water course or sewage system.



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13. DISPOSAL CONSIDERATIONS

Product:

Recommendation Dispose of in accordance with all applicable local and national regulations.

Incineration is the recommended method of disposal.

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.

Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

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.

USA – TSCA
Australia – AICS
Canada – DSL
Korea
Philippines – PICCS
China



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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 date 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.