



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

**TECHNOL FOUR  
SEASONS RED G12+**

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name                                    Technol FOUR SEASONS RED G12+  
Number  
Substance/mixture                            Mixture

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

Identified uses                                Antifreeze

**1.3. Details of the supplier of the safety data sheet**

Supplier                                        TECHNOIL LLC  
A. Racabli 33, Door 4 (Esra plaza)  
Azerbaijan, Baku  
Tel: +99412 404 40 44  
E-mail Address: info@technol.az

**Section 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\*\*\***

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008\*\*\*  
Serious eye damage/eye irritation - Category 2\*\*\* - (H319)\*\*\*

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

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

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

REGULATION (EC) No 1272/2008\*\*\*



### Signal Word

WARNING\*\*\*

### Hazard Statements \*\*\*

H319 - Causes serious eye irritation\*\*\*

### Precautionary statements

P280 - Wear eye protection/ face protection\*\*\*

### 2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***	298-577-9	01-2119543726-33	93819-94-4	<3	Xi;R38-41 N;R51-53	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

### Additional information

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

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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.

### Section 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. Take victim 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 centre immediately.

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

Eye contact	Causes serious eye irritation.***
Skin contact	Not classified.
Inhalation	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Notes to physician	Treat symptomatically.
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### Section 5: FIRE-FIGHTING MEASURES

#### **5.1. Extinguishing media**

Suitable extinguishing media	Carbon dioxide (CO <sub>2</sub> ). 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**

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.
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### **5.3. Precautions for fire-fighters**

<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Other information</b>	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

<b>General Information</b>	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.
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### **6.2. Environmental precautions**

<b>General Information</b>	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.
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### **6.3. Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Dam up. Contain spillage, and then collect with non-combustable 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.
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### **6.4. Reference to other sections**

<b>Personal protective equipment</b>	See Section 8 for more detail.
<b>Waste treatment</b>	See section 13.

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.
<b>Hygiene measures</b>	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.

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### 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. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto 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.

#### Materials to avoid

Strong oxidising agents.

### 7.3. Specific use(s)

#### Specific use(s)

No information available.\*\*\*

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parametres

#### Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)\*\*\*

#### Legend

See section 16

#### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4			0.58 mg/kg Dermal 8.31 mg/m <sup>3</sup> Inhalation	

#### DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4			0.29 mg/kg Dermal 2.11 mg/m <sup>3</sup> Inhalation 0.24 mg/kg Oral	

#### Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral

# Technol

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zinc bis[O-(6-methylhept yl)] bis[O-(sec-butyl)] bis(dithiophosphate) *** 93819-94-4	0.004 mg/l fw 0.0046 mg/l mw 0.021 mg/l or	0.0116 mg/kg dw fw 0.00116 mg/kg dw mw	0.00528 mg/kg soil dw		100 mg/l	10.67 mg/kg food
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### 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 14387). Type A/P2. 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: Fluorinated rubber, 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, and the contact time. 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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance

Clear

Colour

brown clear

Physical state @20°C

Liquid

Odour

No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Boiling point/boiling range		Not applicable	
Flash point	115 °C		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapour pressure		No information available	
Vapour density		No information available	
Density	1100 kg/m <sup>3</sup>	@ 15 °C	
Water solubility		Insoluble***	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		Not applicable	
Viscosity, kinematic			
Viscosity, kinematic			
Explosive properties	Not explosive		
Oxidising properties	Not applicable		
Possibility of hazardous reactions	Not applicable		

### **9.2. Other information**

No information available\*\*\*

## **Section 10: STABILITY AND REACTIVITY**

### **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 oxidising agents.

### **10.6. Hazardous Decomposition Products**

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

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### Acute toxicity Local effects Product Information

<b>Skin contact</b>	. Not classified.
<b>Eye contact</b>	. Causes serious eye irritation.***
<b>Inhalation</b>	. Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

##### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
zinc bis[O-(6-methylheptyl) bis[O-(sec-butyl)] bis(dithiophosphate)***	LD50 2600 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit - OECD 402)	

##### Sensitisation

**Sensitisation** Not classified as a sensitizer.

##### Specific effects

<b>Carcinogenicity</b>	This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
<b>Mutagenicity</b>	This product is not classified as mutagenic.
<b>Reproductive toxicity</b>	This product does not present 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 (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).



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### Section 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Not classified.

##### 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 bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** - 93819-94-4	EbC50 (96h) 2.1 mg/l Selenastrum capricornutum (OECD 201)	EL50 (48h) 5.4 mg/l Daphnia magna (OECD 202)	LC50 (96h) 4.5 mg/l Oncorhynchus mykiss (OECD 203)	

##### 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

##### Product Information

No information available.

##### logPow

No information available

##### Component Information

Chemical Name	log Pow
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** - 93819-94-4	0.9

#### 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.

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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.

## **Section 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. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.\*\*\*

**EWC Waste Disposal No** The following Waste Codes are only suggestions: 13 02 05. 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.

## **Section 14: TRANSPORT INFORMATION**

**ADR/RID** not regulated

**IMDG/IMO** not regulated

**ICAO/IATA** not regulated

**ADN** not regulated

## **Section 15: REGULATORY INFORMATION**

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

**European Union**

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**International Inventories**

No information available\*\*\*

### **Further information**

No information available\*\*\*

### **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment**

No information available

### **15.3. National regulatory information**

#### **The United Kingdom**

• Avoid exceeding occupational exposure limits (see section 8).

#### **Ireland**

• Avoid exceeding occupational exposure limits (see section 8).

<b>Section 16: OTHER INFORMATION</b>
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#### **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\*\*\*

#### **Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation\*\*\*

#### **Abbreviations, acronyms**

##### Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+                      Sensitiser  
\*\*                     Hazard Designation  
M:                     Mutagen

\*                        Skin designation  
C:                      Carcinogen  
R:                      Toxic to reproduction

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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88/379/EEC (Classification and Labelling):

Symbols:

Xn Harmful

R Phrases:

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

S Phrases:

S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of... (to be specified by the manufacturer).

Special Provisions:

EC label.

Contents:

2,4,6-tris(dimethylaminomethyl)phenol

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

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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 Safety Data Sheet