

MATERIAL SAFETY DATA SHEET

OSCAR PYROX COMPLEX EP 2

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

1.1. Product identifier

Product name Number Pure substance/mixture OSCAR PYROX COMPLEX EP 2 B44 Mixture

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

Identified uses

Lubricating grease.

1.3. Details of the supplier of the safety data sheet

Supplier

OSCAR LUBRICANTS NEW INDUSTRIAL AREA 1 AJMAN, UAE Tel: +971 6 7433354

For further information, please contact:

 Contact Point
 HSE

 E-mail Address
 info@oscarlubricants.com

1.4. Emergency telephone number

+971 55 3325889

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.

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

Directive 1999/45/EC

R-phrase(s) none***

S-phrase(s)

none***

Contains Reaction products of bis(4- methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May produce an allergic reaction.

Safety data sheet available on request.

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 Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
	270-608-0	01-2119493628-22	68457-79-4	<1.8	Xi;R38-41	Aquatic Chronic 2 (H411)
O,O-bis(iso-Bu and pentyl)					N;R51-53	Eye Dam. 1 (H318)
esters, zinc salts						Skin Irrit. 2 (H315)

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. 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 for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician. 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 Center immediately.

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

Eye contact	Not classified.
Skin contact	Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
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

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Notes to physician
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Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Carbon dioxide (CO 2). 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.

5.3. Advice for fire-fighters

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

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. Use personal protective equipment. Ensure adequate ventilation. Remove all
	sources of ignition.

6.2. Environmental precautions

General Information 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.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning upDam up. 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). Collect free product with suitable
mechanical means. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal Protective EquipmentSee Section 8 for more detail.Waste treatmentSee section 13.

Waste treatment

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

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

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk o contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product 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 pocket
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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. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on 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 oxidizing agents.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits	oil mist : 10mg/m ³ , for 15 minutes; oil mist : 5mg/m ³ , for 8 hours.
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Legend

See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	
Phosphorodithioic acid,			11.87 mg/kg bw/day	
mixed O,O-bis(iso-Bu			Dermal	
and pentyl) esters, zinc			8.13 mg/m ³ Inhalation	
salts				
68457-79-4				
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	
Phosphorodithioic acid,			5.93 mg/kg bw/day	
mixed O,O-bis(iso-Bu			Dermal	
and pentyl) esters, zinc			2.06 mg/m ³ Inhalation	
salts			0.24 mg/kg bw/day Oral	
68457-79-4				
Predicted No Effect Cond	centration			·

(PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral

Phosphorodithioic	0.000004 mg/l fw		100 mg/l	10.67 mg/kg food
acid, mixed	0.0000046 mg/l			
O,O-bis(iso-Bu and	mw			
pentyl) esters, zinc	0.000046 mg/l or			
salts				
68457-79-4				

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	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). 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. 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		red solid Characteristic	
Property	<u>Values</u>	<u>Remarks</u>	<u>Method</u>

pH Boiling point/boiling range		Not applicable Not applicable	
Flash point		No information available	
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic	~ 900 kg/m³	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available No information available No information available	·
Explosive properties Oxidizing Properties Possibility of hazardous reactions	Not explosive Not applicable Not applicable		
9.2. Other information			
Drop point	> 275 °C		ISO 2176

10. STABILITY AND REACTIVITY

10.1. Reactivity

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 None under normal use. 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 toxicological effects

Acute toxicity Local effects Product Information

Skin contact	. Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
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 Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	LD50 3600 mg/kg (Rat - OECD 401)***	LD50 > 20000 mg/kg (Rabbit - OECD 402)***	
Sensitization			
Sensitization	Not classified as a sensitizer.	Contains sensitizer(s). May produc	e an allergic reaction.
Specific effects			
CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.Reproductive toxicityThis product does not present any known or suspected reproductive hazards.Repeated Dose ToxicityThis product does not present any known or suspected reproductive hazards.			tive hazards.
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects	Characteristic skin lesions (pirrexposures (contact with contar	ples) may develop following protoninated clothing).	onged and repeated

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Product Information

No experimental data available .

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Phosphorodithioic acid,	EbL50 (72h) 21 mg/l	EC50 (48h) 23 mg/l	LC50 (96h) 4.5 mg/l	
mixed O,O-bis(iso-Bu and	(Scenedesmus subspicatus -	(Daphnia magna - OECD	(Cyprinodon variegatus -	
pentyl) esters, zinc salts	OECD 201)***	202)***	OECD 203)***	
68457-79-4				

Chronic aquatic toxicity • Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4		NOEC(21d) 0.8 mg/l Daphnia magna		

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 Component Information No information available

Chemical Name	log Pow
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc	0.69***
salts - 68457-79-4	

12.4. Mobility in soil

Soil	Given its physical and chemical characteristics, the product has no soil mobility.
Air	Loss by evaporation is limited.
Water	The product is insoluble and floats on water.
12.5. <u>Results of PBT and</u>	vPvB assessment
PBT and vPvB assessment	No information available.
12.6. Other adverse effec	<u>ts</u>
General Information	No information available.
13. DISPOSAL CONSIDERA	TIONS
13.1. Waste treatment me	ethods
Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
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. 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

14. TRANSPORT INFORMATION

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

used.

15. REGULATORY INFORMATION

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

European Union

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 Ch	nemical 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

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

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

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

H315 - Causes skin irritation

H318 - Causes serious eye damage H411 - Toxic to aquatic life with long lasting effects

Abbreviations, acronyms

Legend Section 8

Sensitizer

Skin designation

**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date:	2013-05-13
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