

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30400

ALTIS SH 2

Date of the previous version: 2	013-04-30	Revision Date: 2015-04-21	Version 4	
Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1. Product identifier				
Product name Number Substance/mixture	ALTIS SH 2 1JD Mixture			
1.2. Relevant identified u	ises of the substai	nce or mixture and uses advised against		
Identified uses	Lubricating grease.			
1.3. Details of the suppli	er of the safety da	ta sheet		
Supplier	TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033			
For further information, please contact:				
Contact Point E-mail Address	Specific Product Re rm.gb-msds@total.c	lated Info : 01977 636200 :o.uk		
1.4. Emergency telephone number				

00 33 149 00 00 49 (24h/24, 7d/7) TOTAL UK ltd: + 44 (0) 20 7339 8000 For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200 For bitumen only: Total Bitumen -+44 (0) 17 7272 9302

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***

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The product is not classified as dangerous according to Regulation (EC) No. 1272/2008***

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



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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***

Hazard Statements *** None***

Precautionary statements None***

Supplemental Hazard Statements EUH210 - Safety data sheet available on request***

2.3. Other hazards

Environmental properties

Contaminated surfaces will be extremely slippery.***

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Hazardous components ***

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
Alkyl phosphorothioate***	-	_***	192268-65-8	1-10	R53	Aquatic Chronic 4 (H413)***

Additional information

The product is made from synthetic base oils.

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.***



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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. Was 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 pers physician or poison control centre immediately.	on. Call a	
4.2. Most important sympt	oms and effects, both acute and delayed		
Eye contact	Not classified.		
Skin contact	Not classified. High pressure injection of the products under the skin may have serious consequences even though no symptom or injury may be apparent.	very	
Inhalation	Not classified. Inhalation of vapours in high concentration may cause irritation or system.	f respiratory	
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting a diarrhoea.	and	
4.3. Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	Treat symptomatically.		

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO 2)). ABC powder. Foam	. Water spray or fog.
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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. Nitrogen oxides (NOx).

5.3. Precautions 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.



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Section 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-combustable 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 equipment	See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handlingWhen 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.Prevention of fire and explosionTake precautionary measures against static discharges. Ground/bond containers, tanks
and transfer/receiving equipment.Hygiene measuresEnsure 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.

7.2. Conditions for safe storage, including any incompatibilities



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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 CO	NTROLS / PERSONAL PROTECTION	
8.1. Control parametres		
Exposure limits	Do not contain substance with european workplace exposure limits in concentration above regulatory thresholds***	
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 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. In case of vapours and aerosol formation:. Respirator with combination filter for vapour/particulate (EN 14387), Type A/P1. 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: Nitrile rubber, Fluorinated 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.	



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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

Colour Physical state @20°C Odour		light yellow solid characteristic		
<u>Property</u> pH Boiling point/boiling range	Values_	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>	
Flash point Evapouration rate Flammability Limits in Air Vapour pressure Vapour density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic Explosive properties Oxidising properties Possibility of hazardous reactions 9.2. Other information	 > 200 °C > 392 °F ~ 880 kg/m³ > 250 °C > 482 °F Not explosive Not applicable Not applicable 	No information available No information available No information available @ 20 °C Insoluble No information available No information available	ASTM E659 ASTM E659	
Drop point	>= 260 °C		ISO 2176	
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

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Hazardous reactions	None under normal processing.			
10.4. Conditions to Avoid				
Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static ele	ectricity.		
10.5. Incompatible materia	als_			
Materials to avoid	Strong oxidising agents.			
10.6. Hazardous Decompo	sition Products			
Hazardous Decomposition Produc	ts None under normal use. Incomplete combustion and thermolysis may produce varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbor and soot, Nitrogen oxides (NOx), Hydrogen cyanide.			
Section 11: TOXICOLOGIC	AL INFORMATION			
11.1. Information on toxic	ological effects			
Acute toxicity Local effects Produ	ict Information			
Skin contact	. Not classified. High pressure injection of the products under the skin may has serious consequences even though no symptom or injury may be apparent.	ave very		
Eye contact	. Not classified.			
Inhalation	. Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.			

Acute toxicity - Component Information

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Ingestion

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl phosphorothioate***	LD50 > 2000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	
<u>Sensitisation</u>			
Sensitisation	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 present any known or suspected reproductive hazards.		
Repeated Dose Toxicity			
Subchronic Toxicity	No information available.		

. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.



SDS #: 30400 ALTIS SH 2 Revision Date: 2015-04-21 Version 4 Target Organ Effects (STOT) Version available. Target Organ Effects (STOT) No information available. Other information Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 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 other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Alkyl phosphorothioate*** 192268-65-8	EC50 (72 h) > 100 mg/l Scenedesmus sp. (OECD 201)	EC50 (48 h) > 100 mg/l Daphnia magna	LC50 (96 h) > 100 mg/l Brachydanio rerio (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.

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Component Information

No information available No information available.***



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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. 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 CO	NSIDERATIONS					
Section 13: DISPOSAL CO 13.1. Waste treatment me						
13.1. Waste treatment me Waste from residues / unused	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					

Section 14: TRANSPORT INFORMATION

ADR/RID_	not regulated
IMDG/IMO	not regulated
ICAO/IATA	not regulated
ADN	not regulated

Section 15: REGULATORY INFORMATION

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



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European Union		
International Inventories	No information available***	
Further information		
No information available***		
15.2. Chemical Safety Ass	essment	
Chemical Safety Assessment	No information available	
15.3. National regulatory i	nformation	
The United Kingdom		
Avoid exceeding occupational expo	sure limits (see section 8).	
Ireland		
Avoid exceeding occupational expo	sure limits (see section 8).	
Section 16: OTHER INFORM	MATION	
Full text of R-phrases referred to u R53 - May cause long-term adverse		
Full text of H-Statements referred H413 - May cause long lasting harm		
Abbreviations, acronyms		

Legend Section 8				
TWA: Time Weigh	t Average			
STEL: Short Time	Exposure Limit			
+	Sensitiser		*	Skin designation
**	Hazard Designatio	n	C:	Carcinogen
M:	Mutagen		R:	Toxic to reproduction
Revision Date: Revision Note		2015-04-21 *** Indicates updated	section.	

This safety data 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 Safety Data Sheet