

SAFETY DATA SHEET According to HSNO Approved Code of Practice 8-1 09-06

SDS #: 30558

ALTIS EM 2

Issuing date: 2019-01-09

Revision Date: 2020-07-28

Version 2

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier **Product name** ALTIS EM 2 Other means of identification Number 1JB Substance/mixture Mixture Recommended use of the chemical and restrictions on use **Identified uses** Lubricating grease. Details of the supplier of the safety data sheet TOTAL OIL ASIA PACIFIC PTE LTD Supplier 182 Cecil Street #27-01 Frasers Tower Singapore 069547 Tel: +65 6879 2200 Fax: +65 6879 2203 Importer Oil Intel Limited 56 Whakatu Road, Whakatu Hastings 4172 NEW ŽEALAND Phone: +64 (06) 871 53 25 Fax: +64 (06) 870 48 90 For further information, please contact: Contact Point HSE E-mail Address ms.ap-sds@total.com Emergency telephone

New Zealand: +64 9 929 1483 Asia-Pacific: +65 3158 1074 New Zealand Poisons Information Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001



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GHS Label elements, including precautionary statements

Signal word

None

Hazard Statements None

Other hazards which do not result in classification

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	Mineral oil of petroleum ori	gin.	
Chemical Name	CAS-No	EC-No	Weight %
A mixture of: 3,3'-dicyclohexyl-1,1'-methylene bis(4,1-phenylene)diurea; 3-cyclohexyl-1-(4-(4-(3-octadec ylureido)benzyl)phenyl)urea; 3,3'-dioctadecyl-1,1'-methyleneb is(4,1-phenylene)diurea	٨	-	5-<10
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	421-820-9	0.25-<1

Additional information

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
Inhalation	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.



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Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything tunconscious person. Call a physician or Poison Control Center immedia		
Protection of First-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.		
Most important symptoms/effe	ects, acute and delayed		
Skin contact	Not classified based on available data. High pressure injection of the pro skin may have very serious consequences even though no symptom or apparent.		
Eye contact	Not classified based on available data.		
Inhalation	Not classified based on available data.		
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.		

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING I	MEASURES
Suitable Extinguishing	Media

Suitable 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.	
Specific hazards arising from the chemical		
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. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans, Nitrogen oxides (NOx), Phosphorous oxides.	
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.



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6. ACCIDENTAL RELEASE MEASURES

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.	
Environmental precautions		
General Information	Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.	
Methods and material for containment and cleaning up		
Methods for containment	If necessary dike the product with dry earth, sand or similar non-combustible materials.	
Methods for cleaning up	Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.	
Other information		
Personal Protective Equipment	See Section 8 for more detail.	
Waste treatment	See section 13.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	For personal protection see section 8. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing.
Prevention of fire and explosion	Take precautionary measures against static discharges.
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. 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.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep
conditions	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



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	emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture.
Materials to Avoid	Strong oxidizing agents.
8. EXPOSURE CONTROLS	/PERSONAL PROTECTION
Control parameters	
Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)
Appropriate engineering control	<u>S</u>
Engineering Measures	Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tank containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Individual protection measures,	such as personal protective equipment (PPE)
Personal Protective Equipment	
General Information	Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.
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): Type A/P1. Warning ! filters have a limited use duration. 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. EN 166.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type 4/6.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least.



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These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor Odor Threshold		green solid Characteristic No information available	
<u>Property</u> pH Melting point/range	<u>Values</u>	<u>Remarks</u> Not applicable No information available	<u>Method</u>
Boiling point/boiling range		No information available	
Flash point		Not applicable	
Evaporation rate Flammability Limits in Air		No information available	
upper Lower Vapor Pressure Vapor density Relative density Density Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	0.900 900 kg/m ³ Not explosive Not applicable None under normal proc	No information available No information available No information available @ 20 °C @ 20 °C Insoluble No information available No information available No information available No information available No information available No information available No information available	

9.2. Other information

Freezing Point

No information available



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10. STABILITY AND REACTIVITY

Reactivity	None under normal processing.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans, Nitrogen oxides (NOx), Phosphorous oxides.	

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Not classified based on available data.	
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Skin contact	Not classified based on available data. 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 based on available data.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms		
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Acute toxicity - Product Information		

Oral	Not classified based on available data.
ATEmix (oral)	> 5,000.00 mg/kg
Dermal	Not classified based on available data.
ATEmix (dermal)	> 5,000.00 mg/kg
Inhalation	Not classified based on available data
ATEmix (inhalation-gas)	> 20,000.00 ppm
97.2800001 % of the mixture co	nsists of ingredient(s) of unknown acute inhalation toxicity (gas)



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ATEmix (inhalation-vapor)26.70 mg/l89.0100001 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)ATEmix (inhalation-dust/mist)61.70 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives 192268-65-8	LD50 >2000 mg/kg bw (rat)	LD50 >2000 mg/kg bw (rat)		
Skin corrosion/irritation	Not classified based on av	vailable data.		
Serious eye damage/eye irritat	on Not classified based on av	vailable data.		
Sensitization	Not classified based on av	vailable data.		
Carcinogenicity	Not classified based on av	Not classified based on available data.		
Germ Cell Mutagenicity	Not classified based on av	vailable data		
Reproductive toxicity	Not classified based on av reproduction.	vailable data. Contains toxic subs	tance(s) listed as toxic to	
Target Organ Effects (STOT)	None known			
STOT - single exposure	Not classified based on av	vailable data		
STOT - repeated exposure	Not classified based on av	vailable data		
Aspiration hazard	Not classified based on av	vailable data.		
Other adverse effects	Characteristic skin lesions exposures (contact with co	(pimples) may develop following ontaminated clothing).	prolonged and repeated	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not classified based on available data.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information



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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
A mixture of: 3,3'-dicyclohexyl-1,1'-methyl enebis(4,1-phenylene)diurea ; 3-cyclohexyl-1-(4-(4-(3-octad ecylureido)benzyl)phenyl)ure a; 3,3'-dioctadecyl-1,1'-methyle nebis(4,1-phenylene)diurea				EC50(3h) 100 mg/l
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives 192268-65-8	EC50(72h) >100 mg/l (Scenedesmus subspicatus-Guideline ODCE 201)	EC50(48h) >100 mg/l (Daphnia magna-Guideline ODCE 202)	LC50(96h) >100 mg/l (Brachydanio rerio-Guideline ODCE 203)	EC20(3h) 403 mg/l (guideline ODCE 209 statique- boue activée)

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
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl		NOEC(21d) >= 5,5 mg/l (Daphnia magna (Guideline ODCE 211, semi-statique)		
derivatives 192268-65-8				

Effects on terrestrial organisms

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential Product Information

No information available.

logPow

No information available

Component Information

Chemical Name	log Pow
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl	4.8-8.8 @ 22 °C and pH 6.7
derivatives - 192268-65-8	

Mobility

Given its physical and chemical characteristics, the product has no soil mobility.



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Air Water	Loss by evaporation is limited. The product is insoluble and floats on water.		
Other adverse effects General Information	No information available.		
13. DISPOSAL CONSIDERA	TIONS		
Waste from Residues / Unused Products	Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations.		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.		
Other information	Refer to section 8 for safety and protective measures for disposal personnel.		

14. TRANSPORT INFORMATION			
ADR/RID	Not regulated		
IMDG/IMO	Not regulated		
	Not regulated		

IS RECOLATOR INFORMATION			
International Inventories	All the substances contained in this product are listed or exempted from listing in the following inventories: U.S.A. (TSCA) Europe (EINECS/ELINCS/NLP)		

National regulatory information

15 DECILI ATORY INFORMATION

New Zealand

- See section 8 for national exposure control parameters
- This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO)

New Zealand HSNO approval code or group standard

HSR002605, Lubricants (Low Hazard)

This SDS may not cover all of the controls relevant for this substance or mixture. The Environmental Protection Authority of New Zealand (EPA) 'User Guide to the HSNO Controls' should be consulted for a comprehensive list of controls and reference to the regulations

16. OTHER INFORMATION	



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Revision Note	No information available

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists bw = body weight bw/dav = bodv weight/dav EC x = Effect Concentration associated with x% response GLP = Good Laboratory Practice IARC = International Agency for Research of Cancer LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading NIOSH = National Institute of Occupational Safety and Health NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level OECD = Organization for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material ATE = Acute Toxicity Estimate QSAR = Quantitative Structure-Activity Relationship EL50 = median Effective Loading NOELR = No Observed Effect Loading Rate PAH = Polycyclic aromatic hydrocarbons LOEC = Lowest Observed Effect Concentration PVA = Polyvinyl alcohol PVC = Polyvinyl chloride ECOSAR = Ecological Structure Activity Relationships CNS = Central nervous system EPA = Environmental Protection Agency ErL50 = effective loading on growth rate in algae test, to cause a 50% responseEbL50 = effective loading on growth with the control in algae test, to cause a 50% response Legend: Section 8 Time weighted average Ceiling: Maximum limit value TWA: STEL: Short term exposure limit Skin designation Sensitizer С Carcinogen +

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