SAFETY DATA SHEET

Issuing Date 11-Nov-2011	Revision Date	Revision Number 0
Section 1. Identification	on of the substance/mixture and of th	e company/undertaking
1.1. Product identifier		
Product Code(s) Product Name Synonyms	HTMOG5 WHITE LITHIUM GREASE AP1	
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against	
Recommended Use	Lubricants, Greases and Release Products, Sealan	t
Uses advised against	No information available	
1.3. Details of the supplier of the safe	ty data sheet	
BMS España Parque tecnologico del Vallès Calle Paletes no. 8, Edificio B 08290 Cerdanyola de Vallès Barcelona Tel : +34/93.565.07.56 Fax : +34/93.565.07.57 Mail : bms@bmsespana.eu		
For further information, please conta E-mail Address	ct bms@bmsespana.eu	
1.4. Emergency telephone number		
Emergency Telephone Number	+34/93.565.07.56	
Europe	112	
	Section 2. Hazards identification	
2.4. Classification of the substance of		

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008 Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the *R*-phrases mentioned in this Section, see Section 16

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s)N - Dangerous for the environmentR-code(s)N;R51-53

2.2. Label Elements



Indication of danger

N - Dangerous for the environment

R-phrase(s)

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrase(s)

S60 - This material and its container must be disposed of as hazardous waste

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

2.3. Other information

Section 3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	278-011-7	74869-21-9	80-90	-	-	No data available
Zinc oxide	215-222-5	1314-13-2	5-10	N; R50-53 PBT	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	-	68649-42-3	1-2	Xi;R36/38 N;R51/53	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	No data available

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

Note

The full refining history is known for this product and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.				
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.				
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.				
Inhalation	Move to fresh air.				
4.2. Most important symptoms and effects, both acute and delayed					
Most Important Symptoms/Effects	No information available.				

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5.1. Extinguishing media

Suitable Extinguishing Media

Dry powder. Carbon dioxide (CO₂). Foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Section 5. Fire-fighting measures

Extinguishing media which must not be used for safety reasons

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 exposure hazards arising from the substance or preparation itself, combustion products, resulting gases Burning produces obnoxious and toxic fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Heavy metal

compounds. Halogenated compounds

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Wear personal protective equipment. Ensure adequate ventilation.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep in a bunded area

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

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Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Zinc oxide			VME: 5 mg/m ³	VLA-EC: 10 mg/m ³	MAK: 1 mg/m ³
1314-13-2			VME: 10 mg/m ³	VLA-ED: 5 mg/m ³	Ceiling / Peak: 1 mg/m ³
				VLA-ED: 10 mg/m ³	

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Zinc oxide		STEL: 10 mg/m ³		TWA: 2 mg/m ³	TWA: 4 mg/m ³
1314-13-2		TWA: 2 mg/m ³		STEL: 10 mg/m ³	_

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Zinc oxide	MAK: 5 mg/m ³	STEL: 3 mg/m ³	NDSCh: 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
1314-13-2	_	MAK: 3 mg/m ³	NDS: 5 mg/m ³	STEL: 10 mg/m ³	STEL: 10 mg/m ³

No information available

Derived No Effect Level Predicted No Effect Concentration (PNEC)	No information available. No information available.
8.2. Exposure controls Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas.
Eye Protection Skin and Body Protection Hand Protection Respiratory Protection	Safety glasses with side-shields. Long sleeved clothing. Protective gloves. None required under normal usage. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental Exposure Controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

Section 9. Physical and chemical properties

Physical State	Semi-fluid (gel).	Appearance	Off-white	
Ddor	Petroleum Oil-Pungent.			
Property	Values	Remarks/ M		
H	Neutral	None known	ו	
lelting Point/Range	NONE	None known	ו	
Boiling Point/Boiling Range	>316°C / 600.8°F	None know	ו	
lash Point	> 221°C	None knowr	ו	
Evaporation rate	No data available	None knowr	1	
lammability (solid, gas)	No data available	None know	1	
/apor Pressure	No data available.	None knowr	1	
/apor Density	No data available.	None know	n	
Relative Density	No data available	None know	'n	
Specific Gravity	0.96	None knowr	1	
Vater Solubility	Insoluble in water.	None knowr	1	
Solubility in other solvents	Largely	None know	'n	
Partition coefficient: n-octan	ol/water No data available	None know	'n	
Autoignition Temperature	No data available	None know	n	
Decomposition Temperature	No data available	None know	n	
/iscosity	No data available	None known	1	
Explosive Properties	No information available			
Dxidizing Properties	No information available			
0.2. Other information /OC Content (%)	None			

Section 9. Physical and chemical properties

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use.

Section 11. Toxicological information

<u>11.1.</u>

Acute Toxicity Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	None known.
Eye Contact	None known.
Skin Contact	None known.
Ingestion	Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc oxide	> 5000 mg/kg (Rat)		
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m ³

Sensitization	None known.
Mutagenic Effects	None known.
Carcinogenic Effects	None known.
Reproductive Toxicity	None known.
Developmental Toxicity	None known.
STOT - single exposure	None known
STOT - repeated exposure	None known
Target Organ Effects	Lungs. Respiratory system.
Aspiration Hazard	Not applicable

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases		LC50 96 h: > 2000 mg/L		
A complex combination of		(Salmo gairdneri)		
hydrocarbons having carbon				
numbers predominantly in the				
range of C12 through C50.				
may contain organic salts of				
alkali metals, alkaline earth				
metals, etc.				
Zinc oxide	Selenastrum capricornutum	Oncorhynchus mykiss		Daphnia magna
	72-hour EC50: 0.14 mg/l	96-hour LC50: 0.14 mg/l		48-hour EC50: 0.07 mg/l
Phosphorodithioic acid, O,O-		LC50 96 h: 1.0-5.0 mg/L		EC50 48 h: 1 - 1.5 mg/L
di-C1-14-alkyl esters, zinc		static (Pimephales promelas)		(Daphnia magna)
salts		LC50 96 h: 10.0-35.0 mg/L		
		semi-static (Pimephales		
		promelas)		

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential.

No information available.

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information	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

IMDG/IMO 14.1. UN-Number 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Marine Pollutant 14.6. Special Provisions EmS No. 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,PG III,Marine Pollutant None. None. F-A, S-F No information available.
<u>RID</u>	UN3082
14.1. UN-Number	Environmentally hazardous substance, liquid, n.o.s.
14.2. Proper Shipping Name	9
14.3. Hazard Class	III
14.4. Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic
Description	acid, O,O-di-C1-14-alkyl esters, zinc salts),9,III
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	M6
ADR	UN3082
14.1. UN-Number	Environmentally hazardous substance, liquid, n.o.s.
14.2. Proper Shipping Name	9
14.3. Hazard Class	III
14.4. Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic
Description	acid, O,O-di-C1-14-alkyl esters, zinc salts),9,III(E)
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	M6
Tunnel Restriction Code	(E)

Section 14. Transport information

ICAO		
14.1. UN-Number	UN3082	
14.2. Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.	
14.3. Hazard Class	9	
14.4. Packing Group		
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,PG III	
14.5. Environmental hazard	None.	
14.6. Special Provisions	None.	
IATA 14.1. UN-Number 14.2. Proper Shipping Name 14.3. Hazard Class	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 	
14.4. Packing Group Description	III UN3082,Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,PG III	
14.5. Environmental hazard 14.6. Special Provisions ERG Code	None. 9L	

Section 15. Regulatory information

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

WGK Classification

Water endangering class = 2

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Not determined
IECSC	Complies
AICS	Not determined
KECL	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Section 16. Other information

Full text of R-phrases referred to under Sections 2 and 3

R53 - May cause long-term adverse effects in the aquatic environment R50 - Very toxic to aquatic organisms

R36/38 - Irritating to eyes and 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

H315 - Causes skin irritation

H319 - Causes serious eye irritation H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date 11-Nov-2011

Revision Date

Revision Note Initial Release.

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

General Disclaimer

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End of Safety Data Sheet