Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	
Product code	

SDS #

**Product type** 

Molub-Alloy Paste White T 468666-DE03 468666 Grease

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

	Identified uses					
General use of lubricants and greases in vehicles or machinery-Industrial General use of lubricants and greases in vehicles or machinery-Professional						
Use of the substance/ mixture       Grease for industrial applications         For specific application advice see appropriate Technical Data Sheet or consult our compresentative.						
1.3 Details of the supplier of the safety data sheet						

Supplier	Lubricants UK Limited, Chertsey Road, Sunbury On Thames, Middlesex, TW16 7BP	
E-mail address	+44 (0)345 600 8125 MSDSadvice@bp.com	

#### 1.4 Emergency telephone number EMERGENCY Carechem TELEPHONE NUMBER

Carechem: +44 (0) 1235 239 670 (24/7)

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Aquatic Chronic 2, H411

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

### 2.2 Label elements

Hazard pictograms



Signal word	No signal word.
Hazard statements	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	P273 - Avoid release to the environment.
Response	P391 - Collect spillage.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	Not applicable.
Deschuet norme Maluk Alley Des	

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# **SECTION 2: Hazards identification**

Supplemental label	Contains Eatty saids tall ail compared with (7) N 0 setadosonyl 1.2 propagadiaming (2:1) and					
Supplemental label elements	al label Contains Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl-1,3-propanediamine (2:1) and Naphthenic acids, zinc salts, basic. May produce an allergic reaction.					
cicilita	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.					
EU Regulation (EC) No. 1907/2006 (REACH)						
Annex XVII - Restrictions	Not applicable.					
on the manufacture,						
placing on the market						
and use of certain						
dangerous substances,						
mixtures and articles						
Special packaging requireme						
Containers to be fitted with child-resistant	Not applicable.					
fastenings						
Tactile warning of danger	Not applicable.					
ractile warning of uallyer	Not application.					
2.3 Other hazards						
Results of PBT and vPvB assessment	Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.					
Product meets the criteria	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.					
for PBT or vPvB according						
to Regulation (EC) No.						
1907/2006, Annex XIII						
Other hazards which do	Defatting to the skin.					
not result in classification	Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a					
	major medical emergency.					
	See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.					
	Experimental data on one or more of the components has been used to determine all or part of					
	the hazard classification of this product.					

# **SECTION 3: Composition/information on ingredients**

Mixture

#### 3.2 Mixtures

Product definition

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives. Thickening agent.

Product/ingredient name	Identifiers	% Classification		Specific Conc. Limits, M-factors and ATEs	Туре
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl- 1,3-propanediamine (2:1)	REACH #: 01-2120790791-44 EC: 295-184-4 CAS: 91845-13-5	≤5	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2	≤3	Asp. Tox. 1, H304	-	[1]
Naphthenic acids, zinc salts, basic	REACH #: 01-2119988500-34 EC: 282-762-6 CAS: 84418-50-8	<1	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]

See Section 16 for the full text of the H statements declared above.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

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# **SECTION 4: First aid measures**

4.1 Description of first aid me	easures
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health ef	fects
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	No known significant effects or critical hazards.
Skin contact	Defatting to the skin. May cause skin dryness and irritation. Not considered a skin sensitizer. Based on data available for this or related materials.
Eye contact	No known significant effects or critical hazards.
Delayed and immediate e	ffects as well as chronic effects from short and long-term exposure
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
4.3 Indication of any imme	ediate medical attention and special treatment needed
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue

becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media			
Suitable extinguishing Use foam or all-purpose dry chemical to extinguish. media			
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.		
5.2 Special hazards arising from	om the substance or mixture		
Hazards from the substance or mixture	No specific fire or explosion hazard.		
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) metal oxide/oxides nitrogen oxides (NO, NO <sub>2</sub> etc.) phosphorus oxides		

#### 5.3 Advice for firefighters

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# **SECTION 5: Firefighting measures**

Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, prot	ective equipment and emergency procedures						
For non-emergency personnel							
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".						
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.						
6.3 Methods and material for c	containment and cleaning up						
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.						
Large spill	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilt material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.						
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.						

### SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

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Protective measures	Put on appropriate personal and clothing. Avoid contact in the original container or a tightly closed when not in us residue and can be hazardo	of spilt material n approved alter se. Do not reuse	and runoff with native made fro	soil and surface wat	erways. Keep erial, kept
Advice on general occupational hygiene	er handling. Re	where this material i emove contaminated so Section 8 for addit	clothing and		
7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with loc from incompatible materials ready for use. Containers th to prevent leakage. Store a product. Do not store in unl environmental contaminatio	(see Section 10) nat have been op nd use only in ec abelled containe	. Keep contair pened must be uipment/conta	ner tightly closed and carefully resealed ar iners designed for us	l sealed until nd kept upright se with this
Not suitable	Prolonged exposure to elevate	ed temperature			
7.3 Specific end use(s)					
Recommendations	See section 1.2 and Exposu	ire scenarios in a	innex, if applica	able.	
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## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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Recommended monitoring procedures
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Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived No Effect Level

No DNELs/DMELs available.

#### **Predicted No Effect Concentration**

No PNECs available

8.2 Exposure controls						
Appropriate engineering controls	Provide exhaust ventilation or othe concentrations below their respect All activities involving chemicals sh exposures are adequately controlle after other forms of control measur Personal protective equipment sho kept in good condition and properly Your supplier of personal protective appropriate standards. For further The final choice of protective equip ensure that all items of personal pro	ive occupa nould be as ed. Persona res (e.g. en ould conform y maintaine e equipme i informatio poment will c	itional exposur seessed for the al protective en gineering cont m to appropria ed. nt should be co n contact your depend upon a	e limits. ir risks to quipment trols) have te standar onsulted fo national o risk asse	health, to e should only been suita ds, be suita or advice or organisation ssment. It is	nsure be considered bly evaluated. able for use, be n selection and for standards.
Individual protection measu	ires					
Hygiene measures	Wash hands, forearms and face th smoking and using the lavatory and stations and safety showers are clo	d at the en	d of the workin	ig period.		
Respiratory protection	In case of insufficient ventilation, w The correct choice of respiratory p conditions of work and use, and the should be developed for each inter therefore be chosen in consultation of the working conditions.	rotection d e condition nded applic	epends upon t of the respira cation. Respira	he chemic tory equip tory prote	cals being h ment. Safet ction equipr	ty procedures ment should
Eye/face protection	Safety glasses with side shields.					
Skin protection						
Hand protection	General Information:					
	Because specific work environmen should be developed for each inter depends upon the chemicals being provide protection for only a limited best chemically resistant gloves wi	nded applic handled, a time befo	cation. The cor and the conditi re they must b	rect choic ions of wo e discarde	e of protect rk and use. ed and repla	ive gloves Most gloves aced (even the
	Gloves should be chosen in consu a full assessment of the working co		the supplier /	manufacti	urer and tak	king account of
	Recommended: Nitrile gloves. Breakthrough time:					
	Breakthrough time data are genera and represent how long a glove ca is important when following breakth conditions are taken into account. technical information on breakthrou Our recommendations on the select	n be expect nrough time Always cor ugh times f	cted to provide e recommenda nsult with your for the recomm	effective ations that glove sup aended glo	permeation actual work plier for up-	resistance. It place
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# SECTION 8: Exposure controls/personal protection

Continuous contact:

	Continuous contact.
	Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.
	Short-term / splash protection:
	Recommended breakthrough times as above. It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.
	Glove Thickness:
	For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.
	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
	Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
	• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
	• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.
Skin and body	Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
<u>Refer to standards:</u>	Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149 Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Physical state	Grease							
Colour	White. [Light]							
Odour	Not available.							
Odour threshold	Not available.							
Melting point/freezing point	Not available.							
Initial boiling point and boiling range	Not available.							
Flammability	Not available.							
Lower and upper explosion limit	Not applicable.							
Flash point	Closed cup: 220°C	(428°F) [l	Estimate	ed. Based on	Lubricar	nts - Base	e Oils]	
Auto-ignition temperature	Not applicable.							
Decomposition temperature	Not available.							
рН	Not applicable.							
Kinematic viscosity Solubility	Not available.							
	Media	R	esult					1
	water	No	t soluble					
Partition coefficient n-octanol/ water (log value)	Not applicable.	I						1
Vapour pressure	Not available.							-
		Vapou	r Press	ure at 20°C	Vapo	our press	sure at 50°C	
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Density and/or Relative density	>1000 kg/m³ (>1 g/c	cm³) at 20	°C	<b>ļ</b>				1
Relative vapour density	Not applicable.	,						
Particle characteristics								
Median particle size	Not available.							
9.2 Other information								
Evaporation rate	Not available.							
Explosive properties	Not available.							
Oxidising properties	Not available.							
Drop Point	>165 °C							
Penetration Number (0.1 mm)	310 to 340 at 25°C							
SECTION 10: Stability a	and reactivity							
10.1 Reactivity	No specific test data av materials for additional			oduct. Refer	to Cond	itions to a	avoid and Inco	mpatible
10.2 Chemical stability	The product is stable.							
10.3 Possibility of hazardous reactions	Under normal condition Under normal condition							
10.4 Conditions to avoid	Avoid all possible sourc	es of igni	tion (sp	ark or flame)				
10.5 Incompatible materials	Reactive or incompatibl	e with the	e followi	ng materials:	oxidisinę	g materia	ls.	
10.6 Hazardous decomposition products	Under normal condition produced.	s of stora	ge and	use, hazardo	us decor	mposition	products shou	uld not be
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### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Amides, from N-(9Z)-9-octadecenyl-1,3-propane diamine and tall oil	2500	N/A	N/A	N/A	N/A

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

# Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.

## Potential acute health effects

	xposure to decomposition products may cause a health hazard. Serious effects may be elayed following exposure.						
Ingestion No	No known significant effects or critical hazards.						
	Defatting to the skin. May cause skin dryness and irritation. Not considered a skin sensitizer. Based on data available for this or related materials.						
Eye contact No	o known significant effects or critical hazards.						
Symptoms related to the physical	I, chemical and toxicological characteristics						
Inhalation No	o specific data.						
Ingestion No	o specific data.						
irr dr	dverse symptoms may include the following: ritation ryness racking						
Eye contact No	o specific data.						
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure						
Inhalation In	halation of oil mist or vapours at elevated temperatures may cause respiratory irritation.						
Ingestion In	gestion of large quantities may cause nausea and diarrhoea.						
Eye contact Po	otential risk of transient stinging or redness if accidental eye contact occurs.						
Potential chronic health effects							
General No	o known significant effects or critical hazards.						
Carcinogenicity No	o known significant effects or critical hazards.						
Mutagenicity No	o known significant effects or critical hazards.						
Developmental effects No	o known significant effects or critical hazards.						
Fertility effects No	o known significant effects or critical hazards.						

#### **11.2 Information on other hazards**

11.2.1 Endocrine disrupting properties					
Not available.					
Remarks - Endocrine disruptor - Health 11.2.2 Other information	Not available.				
Not available.					

## **SECTION 12: Ecological information**

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12.1 Toxicity
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**Environmental hazards** 

Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Not expected to be rapidly degradable.

#### **12.3 Bioaccumulative potential**

Not available.

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# **SECTION 12: Ecological information**

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	Not available.
Mobility	Paste. insoluble in water.

#### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting properties	Not available.
Remarks - Endocrine disruptor - Environment	Not available.
12.7 Other adverse effects	No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### Product

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Yes.

#### Hazardous waste Yes European waste catalogue (EWC)

Waste code	Waste designation
12 01 12*	spent waxes and fats

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

#### **Packaging**

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
References	Commission 2014/955/EU Directive 2008/98/EC

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3077	UN3077	UN3077	UN3077
14.2 UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)	Environmentally hazardous substance, solid, n.o.s Marine pollutant (Zinc oxide)	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)
14.3 Transport hazard class(es)	9		9	9
14.4 Packing group	Ш	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
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# **SECTION 14: Transport information**

meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 4.1.1.4, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Emergency schedules</b> F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**14.6 Special precautions for** Not available. **user** 

UK Emergency Action Code:	2Z
ADR/RID Classification code:	M7
ADN Classification code:	M7
14.7 Maritime transport in bulk according to IMO instruments	Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> <u>Annex XIV - List of substances subject to authorisation</u>

co subject to autionsation
listed.
oncern
re listed.
<u>2006 (REACH)</u>
Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles						
Other regulations						
REACH Status	The company, as identified in Section current requirements of REACH.	on 1, sell	s this product i	n the EU i	n compliand	e with the
United States inventory (TSCA 8b)	All components are active or exemp	oted.				
Australia inventory (AIIC)	All components are listed or exemp	ted.				
Canada inventory	At least one component is not listed					
China inventory (IECSC)	All components are listed or exemp	ted.				
Japan inventory (CSCL)	At least one component is not listed					
Korea inventory (KECI)	At least one component is not listed					
Philippines inventory (PICCS)	At least one component is not listed					
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exemp	ted.				
Ozone depleting substances Not listed.	<u>(1005/2009/EU)</u>					
Prior Informed Consent (PIC) Not listed.	<u>(649/2012/EU)</u>					
Persistent Organic Pollutant	<u>8</u>					
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# **SECTION 15: Regulatory information**

Not listed.

#### EU - Water framework directive - Priority substances

None of the components are listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

E2

15.2 Chemical safety	A Chemical Safety Assessment has been carried out for one or more of the substances within
assessment	this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

# **SECTION 16: Other information**

Abbreviations and acronyms	ADN = European Provisions concerning the International Carriage of Dangerous Goods by
	Inland Waterway
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	CAS = Chemical Abstracts Service
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	CSA = Chemical Safety Assessment
	CSR = Chemical Safety Report
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EINECS = European Inventory of Existing Commercial chemical Substances
	ES = Exposure Scenario
	EUH statement = CLP-specific Hazard statement
	EWC = European Waste Catalogue
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978. ("Marpol" = marine pollution)
	OECD = Organisation for Economic Co-operation and Development
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
	[Regulation (EC) No. 1907/2006]
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	RRN = REACH Registration Number
	SADT = Self-Accelerating Decomposition Temperature
	SVHC = Substances of Very High Concern
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
	STOT-SE = Specific Target Organ Toxicity - Single Exposure
	TWA = Time weighted average
	UN = United Nations
	UVCB = Complex hydrocarbon substance
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative
	Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,
	64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN
	01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN
	01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN
	01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN
	01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN
	01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,
	64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 /
	RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN
	01-2119474889-13
Procedure used to derive the o	classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Product name
 Molub-Alloy Paste White T
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 United
 Language
 ENGLISH

 Kingdom
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 United Kingdom)
 EVENDER 2023.
 EVENDER 2023.

# SECTION 16: Other information

Classifi	cation	Justification
Aquatic Chronic 2, H411		Calculation method
Full text of abbreviated H statements	H302 H304 H314 H317 H318 H400 H410 H411 H412	Harmful if swallowed. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Skin Corr. 1A Skin Sens. 1 Skin Sens. 1A	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1A SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1
<u>History</u>		
Date of issue/ Date of revision	11/09/2023.	
Date of previous issue	06/09/2023.	
Prepared by	Product Stewardship	

Indicates information that has changed from previously issued version.

#### Notice to reader

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# Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture		
Product definition	Mixture	
Code	468666-DE03	
Product name	Molub-Alloy Paste White T	
Section 1: Title		
Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Industrial	
List of use descriptors	Identified use name: General use of lubricants and greases in vehicles or machinery-Industrial	
	Process Category: PROC01, PROC08b, PROC09, PROC02	
	Sector of end use: SU03 Subsequent service life relevant for that use: No.	
	Environmental Release Category: ERC04, ERC07	
	Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1	
Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.	

### Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure No exposure scenario is presented because the product is not classified for Human Health Contributing scenarios: Operational conditions and risk management measures

Molub-Alloy Paste White T	General use of lubricants and greases in vehicles or machinery - Industrial 13/16
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	
Release fraction to soil from process (after typical onsite RMMs)	0
Release fraction to air (after typical onsite RMMs)	5.00E-05
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Local marine water dilution factor	100
Local freshwater dilution factor	10
Environment factors not influenced by risk management:	
Emission days	300
Frequency and duration of use:	
EU tonnage of risk determining substance per year:	2.63E+3 Tonnes/year
Amounts used:	
Section 2.2: Control of environmental ex	posure

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
Organisational measures to prevent/limit release from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant:	
Estimated substance removal from wastewater via on-site sewage treatment	Not available.
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3
Maximum allowable site tonnage (M <sub>Safe</sub> ) based on release following total wastewater treatment removal as product:	Not available.
Conditions and measures related to external treatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste:	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment		
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).	
Exposure estimation and reference to its source - Workers		
Exposure estimation and reference to its s	ource - Workers	

# Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health



# Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the subst	ance or mixture
Product definition	Mixture
Code	468666-DE03
Product name	Molub-Alloy Paste White T
Section 1: Title	
Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Professional
List of use descriptors	Identified use name: General use of lubricants and greases in vehicles or machinery-Professional
	Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20 Sector of end use: SU22
	Subsequent service life relevant for that use: No.
	Environmental Release Category: ERC09a, ERC09b Specific Environmental Release Category: ATIEL-ATC SPERC 9.Bp.v1
Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure No exposure scenario is presented because the product is not classified for Human Health Contributing scenarios: Operational conditions and risk management measures

Molub-Alloy Paste White T	General use of lubricants and greases in vehicles or machinery - Professional 15/16
Fechnical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	s Not available.
Release fraction to soil from process (after typical onsite RMMs)	1E-03
Release fraction to air (after typical onsite RMMs)	1.00E-04
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Local marine water dilution factor	100
Local freshwater dilution factor	10
Environment factors not influenced by risk management:	
Emission days	365
Frequency and duration of use:	
EU tonnage of risk determining substance per year:	5.39 Tonnes/year
Amounts used:	
Section 2.2: Control of environmental ex	posure

echnical on-site conditions and measures	Prevent discharge of undissolved substance to or recover from onsite
o reduce or limit discharges, air emissions nd releases to soil:	wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
organisational measures to prevent/limit elease from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
conditions and measures related to sewage reatment plant:	
Estimated substance removal from wastewater via on-site sewage treatment	No data available yet
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3
Maximum allowable site tonnage (M <sub>Safe</sub> ) based on release following total wastewate treatment removal as product:	No data available yet r
conditions and measures related to external reatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
conditions and measures related to external ecovery of waste:	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment		
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).	
Exposure estimation and reference to its source - Workers		
Exposure estimation and reference to its s	ource - Workers	

# Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health