| Get Barter Structure Stru | | | |
|--|---|---------------|--|
| Product Name | | | Date of Issue |
| MOLUB-ALL | OY PASTE WH | HITE T | 11 September 2023 |
| Company Name | INDUSTRIA 1/15 Accent I East Tamaki Auckland, 2 Tel - (+64) 9 2 | Drive 2013 | 'S & SERVICES LTD |
| Emergency | National Po | oisons Centre | <u>e - New Zealand</u> |
| Contact | 0800 764 766 or Chemcall 0800 243 622 | | |
| Hazard Identification | | | |
| According to criteria in the Hazardous Substances (Hazard Classification) Notice 2020, this material is <u>CLASSIFIED as Hazardous</u> | | | |
| GHS 7 or REACH | Aquatic Chronic 2, H411 | | |
| According to criteria in Transport of Dangerous Goods on Land NZS 5433:2020, product is <u>CLASSIFIED as Dangerous for transport.</u> | | | |
| Other Information | | | |
| HSN (Tariff Code) | HSN (Tariff Code) 2710.12.59 19B | | |
| Shelf Life | | 5 Years | |
| INDUSTRIAL LUBRICAN CS Tel: 0800 104 011 Technical Tel: 0800 104 0 www.ils.co.nz orders@ils.co.nz | | | Page 0 of 16 -ALLOY PASTE WHITE T Issue Date: 11/09/2023 |

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 | |
|--|--|--|
| | nd greases in vehicles or machinery-Industrial nd 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 company representative. | |
| 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 | |

| Product name Molub-Alloy Pa | iste White I | | Product code 468666- | DE03 | Page: 1/16 |
|-----------------------------|-------------------|--------|---------------------------|----------|------------|
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SECTION 2: Hazards identification

| Supplemental label | Contains Eathy saids tall ail compared with (7) N 0 setadosonyl 1.2 proposadiamine (2:1) and | | | |
|---|--|--|--|--|
| Supplemental label elements | 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 | 5 1 5 | | | |
| 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 media | Use foam or all-purpose dry chemical to extinguish. |
| 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 ₂) (carbon monoxide, carbon dioxide) metal oxide/oxides nitrogen oxides (NO, NO ₂ 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 personnelContact emergency personnel. No action shall be taken involving any personal risk or v suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected per from entering. Do not touch or walk through spilt material. Floors may be slippery; use avoid falling. Provide adequate ventilation. Put on appropriate personal protective equ | | | | |
| 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

Date of previous issue

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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 Eating, drinking and smoking should be prohibited in areas where this material is stored and processed. Wash thoroughly after handling. Remove contaminated protective equipment before entering eating areas. See also Section 8 for addit information on hygiene measures. | | | | 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
```

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 | | | | | | J |
| 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 | ļ | | | | 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 |
| | | | | | | | | |
| Product name Molub-Alloy Paste | White T | | | Product | code 40 | 58666-DE | 03 P ag | ge: 7/16 |

| Froduct name Molub-Alloy 1 a | | | Floudel code 400000 | J-DE03 | Fage. Into |
|------------------------------|-------------------|--------|---------------------|----------|------------|
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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

| | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|
| Ingestion No | o known significant effects or critical hazards. | | | | | | |
| | Skin contactDefatting 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

```
12.1 Toxicity
```

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 ≤ 5 L or ≤ 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 ≤ 5 L or ≤ 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. Emergency schedules F-A, S-F | This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 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> | | | | | |
| Product name Molub-Alloy Paste | White T | | Product code | 468666-0 | DE03 | Page: 10/16 |
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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] |
| | ······································ |

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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

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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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 _{Safe}) 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 o reduce or limit discharges, air emissions nd releases to soil: Organisational measures to prevent/limit | 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 |
|---|---|
|)rganisational 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 _{Safe}) based on release following total wastewater treatment removal as product: | No data available yet |
| 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 |