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Revised edition no : 01

P-633 MOLYBDENUM GREASE

Effective Date: 15-7-2014

1 Identification of the Product and the company

	: TLC-KOYA CHEMICALS MANUFACTURING SDN BHD No. 22 & 23, Jalan Maju 1, Cemerlang Industrial Estate, 81800. Ulu Tiram, Johor. Malaysia. Tel: 607-8675798 Fax: 607-8675799 Website: www.koyachemicals.com Email: admin@koyachemicals.com
Emergency phone nr	: See producer
2 Hazard Identification	
Health hazardous	: Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health, by prolonged exposure and if swallowed.
3 Composition / Information on Ingredient	is
Base Oils Molybdenum Disulfide Graphite	Proportion > 85% < 5% < 5% < 5%
4 First Aid Measures	
Acute Swallowed Eye Skin	 This is not expected to be a means of entry during routine operation. Ingestion of small quantities should not cause irritation. May cause sligh ittitation to the eyes. May be mildly irritating to the skin, High pressure injection through the skin, when using appatus such as grease guns, can be highly irritating and means and the same service baselined demand.
Inhaled	 may cause localized damage. No data to indicate a toxic inhalation azard. Inhalation of vapours or mist (generated at elevated temperatures) may cause irritation to the nose and throat. May be harmful if exposed to vapour, mists or fumes resulting from thermal decomposition products.
Chronic First Aid Swallowed	 Prolonged or repeated skin contact may lead to drying of the skin, If a large quantity is ingested seek medical attention. It may be necessary to induce vomiting, taking extreme care that the person dows not aspirate into the lungs. If aspiration occurs, urgent medical attention should be sought.
Eye	: Wash with copious amounts of water for 15 minutes and seek medical advice if irritation develops or persists.
Skin	: Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. High pressure injection through the skin requires urgent medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material)
Inhaled	: Remove person to fresh air and seek medical advice. If not breathing, apply artificial respiration and seek urgent medical aid.
First Aid Facilities Advice to doctor	: Eye wash fountains and safety showers are recommended. : Treat symptomatically.



P-633 MOLYBDENUM GREASE

Page :2

Revised edition no : 01

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5 Fire-Fighting Measures

Hazards of use / storage List of dangerous decomposition or combustion Fire-fighting recommendations Type of extiguisher / Fire-fighting agents Precaution Protective Clothing Reativity	 : This product is combustible if preheated : Combustion products oxided of carbon, nitrogen phosporus and zinc. : Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. : Use foam, carbon dioxide or dry chemical. Do not use water jets. : Water may cause splattering or boil-over. : Self-contained breathing appratus is recommended during a fire. : May react with strong oxidising agents.
Accidental Release Measures	
Personal protection Environment precautions Cleaning / recovery	 Wear PVC-gloves and goggles to contain spillage. Avoid repeated skin contact. Prevent the product contaminating soil and groundwater. Prevent the product enetring sewers and waterways. Cfr. Section 12. Large spillages : contain and pump into containers Small spillages : absorb on sand, earth and collect into containers for disposal. Disposal should always comply with local, national or EEC
	regulations. Cfr. Section 13.
Handling and Storage	
Storage and Transport	: Classified as a combustible solid. Store in a well ventilated area away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Do not store in plastic containers unless appreved for this application.
Exposure controls / personal protection	n
Exposure standards Engineering Controls	 If the material is subject to high temperature operations and mists or vapours are generated the Manufacturer recommends: Time Weighted Average (TWA): 5 mg/m³ (oil mist). Short Term Exposure Limit (STEL): 10mg/m³ (oil mist). Time Weighted Average (TWA): 5 mg/m³ Short Term Exposure Limit (STEL): 10mg/m³ Special ventilation is not normally required. However, in the operation of Certain equiment or at elevated temperatures mistsor vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the manufacturer recommended exposure standard.
Personal Protection Respirator Type (AS 1716) Glove Type Eye Protection Clothing	 During routine operation a repirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. PVC. Neoprene or Nitrile gloves are recommended. Safety glasses or goggles are recommended to avoid eye contact. If the material is used at elevated temperatures or under pressure a full face shield should be worn. During normal operating procedured, long sleeved clothing is recommended to provide skin protection. Soiled clothing should be washed with detergent prior to re-use.
	List of dangerous decomposition or combustion Fire-fighting recommendations Type of extiguisher / Fire-fighting agents Precaution Protective Clothing Reativity Accidental Release Measures Personal protection Environment precautions Cleaning / recovery Handling and Storage Storage and Transport Exposure controls / personal protection Exposure standards Engineering Controls Personal Protection Respirator Type (AS 1716) Glove Type Eye Protection



9

Physical and Chemical Properties

Page :3

Revised edition no : 01

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P-633 MOLYBDENUM GREASE

Colour Appearance Vapour Pressure (mmgHg at 20°C) Density @ 15°C (g/mL) Flashpoint (°C) Flammability Limits (%) Solubility in Water (g/L)	: Black : Grease : Typically <0.1 : Typically 0.9 : >200°C (ASTM D-93) : Not available : Not miscible with water
Other Properties Work Penetration @ 25°C Dropping Point (°C) Viscosity @ 40°C (cSt)	: 260-295 : Typically 260°C : Typically 150
10 Stability and Reactivity	
Conditions to avoid	: Stable under the recommended storage conditions. Cfr. Section 7 "Storage". Bacterial degradation can occur if the Product is stored for an unuasually long period or is stored under unsuitable conditions.
Materials to avoid Hazardous decomposition products	: N/D : N/D
11 Toxicological Information	
On product	: Low toxicity is indicated by available data. Under normal industrual conditions, there is no indication that the Product can be considered as a health risk. Skin contact should be avoided to prevent possible long-term or short-term sensitation.
12 Ecological Information	
Ecotoxicity	: The Product is soluble with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water. Water for sewege treatment, that has been contaminated. with small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms.
Mobility	: Not established.
Persistence and degradability	: There is only a slow environmental degradation of the Product.
Bioaccumulative potential Other adverse effects	: There is seemingly no tendency for bioaccumulation. : Unknown.
13 Disposal Considerations	

Spills are easily contained due to the nature of the product. Caution: The product may be slippery. The product should be shovelled into a metal drum and treated as a solid waste. Follow state or local regulations for the disposal of the waste. Clean area with soap and water. Do not allow product to enter drains, sewers or water courses-inform local authorities if this occurs.



MATERIAL SAFETY DATA SHEET

Page :4

Revised edition no : 01

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P-633 MOLYBDENUM GREASE

14 Transport Information

Regulatory Information	
Classification and labeling	: Classification / symbol - not regulated
Governing directive	: Occupational Safety and Health (Classification, packaging and Labeling of Hazardous Chemicals) Regulations 1997.
Safety advice	 May contain information in excess of requirements under applicable laws. S23 Do not breathe gas/fumes/vapor/spray S24 Avoid contact with skin S33 Take precautionary measures against static discharges S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

NFPA hazard ratingHealth: Irritation, minor residual injury (1)Flammability: Burns only if pre-heated (1)Reactivity: N/A (0)Special Hazard: N/ANPCA HMIS Health: 2 Moderate hazardPERS. Protect Index: Burns only if pre-heated (1)Print date: 8-5-2010

N/A - Not Applicable N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such reommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.