# MATERIAL SAFETY DATA SHEET MC 2048BT

# 1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME MC 2048BT Hi Temp Disc Brake Wheel Bearing Grease

PRODUCT DESCRIPTION LUBRICATING GREASE

Product number LX-1907 / LX-1908 / LX-1909 / LX-1914

PRODUCT USE Lubricating Grease

SUPPLIER Lumax Lubrication Equipment

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CONTACT PERSON Lumax

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Date of last issue 2011-2-17

# 2. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS No. **INGREDIENT NAME** WEIGHT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED Mixture\*\*(2) 80-90 % \*OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT 7620-77-1 7-13 % \*PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS (TYPE B) 68649-42-3B 1-5 % \*ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# Proprietary <0-0.5 % 15890-25-2)

COMPOSITION COMMENTS Refer to section eight for exposure limits on ingredients.

Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially. \*\*(2) The base oil for this product can be a mixture of any of the

following highly refined petroleum streams:

CAS 64741-88-4; CAS 64741-89-5; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8;

<sup>\*</sup> This chemical(s) is hazardous according to OSHA/WHIMIS criteria

CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1. Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics. All petroleum base oils contained in this product meet the IP 346 criteria of less than 3 percent PAH's and are not considered carcinogens by IARC, NTP or OSHA.

\*\*(7) The petroleum residual oils for this product can be a mixture of any of the following

highly refined petroleum streams:

CAS NO 64742-01-4, CAS NO 64742-57-0, CAS NO 64742-62-7, CAS NO 64742-65-0 and CAS NO 72623-83-7. Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and/or hydrotreating to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

# 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Not regarded as a health hazard under current legislation.

**INHALATION** Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

Heating can generate vapors that may cause respiratory irritation, nausea and

headaches.

**INGESTION** May cause stomach pain or vomiting.

**SKIN** Prolonged or repeated contact leads to drying of skin.

**EYES** May be slightly irritating to eyes.

**SENSITIZATION** No known information.

**CARCINOGENICITY** IARC-2B designation: Naphthalene, CAS # 91-20-3, <10ppm

**TERATOGENICITY** No known information.

**HEALTH WARNINGS** INHALATION. Heating can generate vapors that may cause respiratory irritation,

nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Slightly irritating. INGESTION. Can cause stomach

ache and vomiting.

**ROUTE OF ENTRY** Inhalation. Skin and/or eye contact. Ingestion.

## 4. FIRST AID MEASURES

**INHALATION** Move the exposed person to fresh air at once. For breathing difficulties oxygen may be

necessary. Get medical attention if any discomfort continues.

**EYES** Rinse with water. Contact physician if discomfort continues.

SKIN Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical

attention if any discomfort continues.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical

treatment within the first few hours may significantly reduce the ultimate extent of injury.

INGESTION DO NOT INDUCE VOMITING! Get medical attention immediately!

#### 5. FIRE FIGHTING MEASURES

FLASH POINT (°C) 232 (450°F) Cd OC (Cleveland open cup).

FLAMMABILITY LIMIT - LOWER(%) N/D
FLAMMABILITY LIMIT - UPPER(%) N/D

**EXTINGUISHING MEDIA** Water spray, fog or mist. Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite

etc.

SPECIAL FIRE FIGHTING

**PROCEDURES** 

Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION

**HAZARDS** 

Volume and pressure increases strongly when heated. Risk of container explosion in

fire.

HAZARDOUS COMBUSTION

PRODUCTS

Acrid smoke/fumes. Oxides of: Carbon. Phosphorus. Sulfur.

PROTECTIVE MEASURES IN CASE

**OF FIRE** 

Self-contained breathing equipment and chemical resistant clothing recommended.

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Minimize skin contact.

PRECAUTIONS TO PROTECT THE

**ENVIRONMENT** 

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land

areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES Provide good ventilation. Use appropriate protective clothing. Carefully collect spilled

material in closed containers and leave for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways. Rinse area with water.

## 7. HANDLING AND STORAGE

**HANDLING PRECAUTIONS** Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors.

Use approved respirator if air contamination is above accepted level. Containers should be kept tightly closed. Avoid spilling, skin and eye contact. Eye wash and emergency

shower must be available at the work place.

**STORAGE PRECAUTIONS** Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing

materials.

**STORAGE CRITERIA** Chemical storage.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
NAPHTHALENE	OSHA	10 ppm	15 ppm	50 mg/m3	
	ACGIH	10 ppm (skin)**A4	15 ppm	52 mg/m3	79 mg/m3
	NIOSH	10 ppm	15 ppm		
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)	OSHA			0.5 mg/m3 as Sb	
,	ACGIH			0.5 mg/m3 as Sb	

#### PROTECTIVE EQUIPMENT





**ENGINEERING CONTROLS**Use engineering controls to reduce air contamination to permissible exposure level.

**VENTILATION**No specific ventilation requirements noted, but forced ventilation may still be required if

air contamination exceeds acceptable level.

**RESPIRATORS**No specific recommendation made, but respiratory protection may still be required under

exceptional circumstances when excessive air contamination exists.

**PROTECTIVE GLOVES**Chemical resistant gloves required for prolonged or repeated contact. Use protective

gloves made of: Neoprene, nitrile, polyethylene or PVC.

**EYE PROTECTION** Use eye protection.

**PROTECTIVE CLOTHING**Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES Wash at the end of each work shift and before eating, smoking and using the toilet.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE** Grease.

COLOR Blue.

ODOR Mild (or faint).

**SOLUBILITY DESCRIPTION** Insoluble in water.

**DENSITY** 0.90 **Temperature (°C)** 15.6 (60 °F)

VAPOR DENSITY (air=1) > 5

VAPOR PRESSURE < 0.1 mmHg Temperature (°C) 20 (68°F)

EVAPORATION RATE < 1 Reference BuAc=1

pH-VALUE, CONC. SOLUTION N/A

# 10. STABILITY AND REACTIVITY

STABILITY Normally stable.

**CONDITIONS TO AVOID** Avoid contact with acids and oxidizing substances.

**HAZARDOUS POLYMERIZATION** Will not polymerize.

HAZARDOUS DECOMPOSITION

**PRODUCTS** 

Oxides of: Carbon. Phosphorus. Sulfur.

## 11. TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION** No experimental toxicological data on the preparation as such is available.

COMPONENT NAPHTHALENE

TOXICOLOGICAL DATA Carcinogenicity. WHMIS (Canada) D2A - R40

TOXIC DOSE - LD 50 1780.00 mg/kg (oral rat)
TOXIC CONC. - LC 50 No Information Available (NIA).

**CARCINOGENICITY** EPA-C designation: Possible Human Carcinogen. EPA-CBD designation: Cannot Be

Determined. IARC-2B designation: Possibly carcinogenic to humans.

COMPONENT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED

TOXICOLOGICAL DATA Carcinogenicity. IP 346 <3%
TOXIC DOSE - LD 50 > 5000 mg/kg (oral rat)
> 2000 mg/kg (skn rbt)

TOXIC CONC. - LC 50 No Information Available (NIA).

COMPONENT OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

TOXIC DOSE - LD 50 No Information Available (NIA).

TOXIC CONC. - LC 50 No Information Available (NIA).

COMPONENT PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

(TYPE B)

**TOXIC DOSE - LD 50** 4739 mg/kg (oral rat) > 2000 mg/kg (skn rbt)

COMPONENT ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS#

15890-25-2)

TOXIC CONC. - LC 50 100 ppm (inh-rat)

# 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION No data on possible environmental effects have been found.

COMPONENT NAPHTHALENE

COMPONENT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED

COMPONENT OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

COMPONENT PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

(TYPE B)

COMPONENT ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS#

15890-25-2)

# 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS** Spilled material, unused contents and empty containers must be disposed of in

accordance with local, state and federal regulations.

#### 14. TRANSPORT INFORMATION

DOT HAZARD CLASS Not regulated.

REPORTABLE QUANTITY (RQ) No

TDGR CLASS Not Regulated.

SEA TRANSPORT NOTES Not regulated per IMDG.

AIR TRANSPORT NOTES Not regulated per IATA.

# 15. REGULATORY INFORMATION

#### **US FEDERAL REGULATIONS**

COMPONENT	SARA 302	CERCLA	<b>SARA 313</b>
NAPHTHALENE	No	100 lbs	Yes
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	No	No	No
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	No	No	No
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS (TYPE B)	No	***	N982 - Zn
ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)	No	***	N010 - Sb

See Section 2 for Addtional Information

**REGULATORY STATUS**\*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is

a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section

313.

**CLEAN AIR ACT** 

SARA HAZARD CATEGORIES None

**US STATE REGULATIONS** 

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
LUBRICATING OILS, PETROLEUM, BASE OILS,					Yes	Yes	
HIGHLY REFINED							
PHOSPHORODITHIOIC ACID,				Yes	Yes	EH	
O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS (TYPE							
B)							
ANTIMONY DIALKYLDITHIOCARBAMATE				Yes		EH	
(NJTSRN 800983-5015P OR CAS# 15890-25-2)							
NAPHTHALENE	С		Yes		Yes	EH	

#### STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:

Toluene, developmental hazard, CAS # 108-88-3 <10 ppm Naphthalene, cancer hazard, CAS # 91-20-3 <10 ppm

PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard Antimony compounds regulated under CERCLA and SARA 313, Environmental Hazard <0.3%

#### **WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### LABEL(S) FOR SUPPLY



# CONTROLLED PRODUCT CLASSIFICATION

D2B - Irritating and/or Chronically Toxic Materials

Risk phrases

R-20 Harmful by inhalation.

R-22 Harmful if swallowed.

R-36/37/38 Irritating to eyes, respiratory system and skin.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

#### **GLOBAL INVENTORIES**

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
NAPHTHALENE	DSL	Yes	<b>EINECS</b>	Yes	Yes	Yes	Yes	Yes
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	DSL	Yes	EINECS	Yes	2-1416	3 Yes	Yes	Yes
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS (TYPI B)	DSL E	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

ANTIMONY DIALKYLDITHIOCARBAMATE NPRI Yes EINECS Yes Yes Yes Yes Yes

(NJTSRN 800983-5015P OR CAS# 15890-25-2)

COMPONENT TSCA 12(b) Export Notification

NAPHTHALENE Yes

CANADA CEPA: All components of this product comply with new substance notification

requirements under the Canadian Environmental Protection Act (CEPA).

**USA (TSCA)**All components in this product are listed on the US Toxic Substances Control Act

(TSCA) Inventory or are exempt from TSCA Inventory requirements.

CANADA (DSL)

All components in this product are listed on the Canada Domestic Substances List

(DSL) or are exempt from DSL requirements.

EUROPE (EINECS/ELINCS/NLP) All components in this product are listed on the European Inventory of New and Existing

Chemical Substances (EINECS), the European LIst of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing

requirements.

JAPAN (ENCS)

All components in this product are listed on the Japan Inventory of Existing and New

Chemical Substances (ENCS) or are exempt from ENCS requirements.

PHILIPPINES (PICCS)

All components in this product are listed on the Philippines Inventory of Chemicals and

Chemical Substances (PICCS) or are exempt from PICCS requirements.

AUSTRALIA (AICS)

All components in this product are listed on the Australian Inventory of Chemical

Substances (AICS) or are exempt from AICS requirements.

KOREA (ECL)

All components in this product are listed on the Korea Existing Chemicals List (ECL) or

are exempt from KECL requirements.

CHINA (IECS)

All components in this product are listed on the China Inventory of Existing Chemical

Substances (IECS) or are exempt from IECS requirements.

#### 16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

**HEALTH** Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY Burns only if pre-heated (1) - HMIS/NFPA

**REACTIVIT**Y Normally stable (0) - HMIS/NFPA

NPCA HMIS HAZARD INDEX Slight: Slightly Toxic - May cause slight irritation (1).

PERSONAL PROTECTION INDEX B - Safety Eyewear and Gloves

NPCA HMIS FLAMMABILITY INDEX Burns only if pre-heated (1).

Tariff Code (Schedule B) 2710.19.3750 Lubricating greases, with or without additives.

PREPARED BY Lumax
DATE 2011-02-17

**DISCLAIMER**While the information and recommendations set forth herein are believed to be accurate

as of the date thereof, the company makes no warranty with respect thereto and

disclaims all liability from reliance therein.

<sup>\*</sup> Information revised since previous MSDS version

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