

MATERIAL SAFETY DATA SHEET MC 2020SL

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME MC 2020SL

Product number LIN25500B0

PRODUCT USE Lubricating Grease

MANUFACTURER Chemtool Incorporated

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EMERGENCY TELEPHONE INFOTRAC

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Date of last issue 2010-09-24

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 Mixture**(2) 93-97 wt%

DMSO Extracts)

COMPOSITION COMMENTS

The identity of chemical ingredients not regulated by U.S. or Canadian Federal or Regional Regulations (e.g. regulations such as OSHA HCS, EPA (TSCA, CAA and RCRA), HC WHMIS and EC CEPA) are treated confidentially and are not disclosed above.

**(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 64741-95-3; 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; 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 DMSO extractable PAH's and are not considered carcinogens by

IARC, NTP or OSHA.

Refer to section eight (8) for exposure limits on ingredients.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Combustible Liquid; Class IIIB

Repeated or prolonged contact with skin may cause irritation.

Exposure to vapors generated at high temperatures may cause eye and respiratory

irritation.

Spray mist may irritate eyes, esophagus, and respiratory system.

HEALTH HAZARDS, GENERAL Exposure to vapors generated at high temperatures may cause respiratory irritation.

Spray mist can irritate airways and lungs.

INHALATION High concentrations of mists or aerosols may cause irritation to the respiratory tract.

INGESTION May cause discomfort if swallowed. May cause stomach pain or vomiting.

SKIN Repeated and/or prolonged skin contact may cause irritation.

EYES May cause mild eye irritation.

SENSITIZATION Not known to be a sensitizer.

CARCINOGENICITY No components listed by IARC, NTP, OSHA, NIOSH, US EPA, ACGIH, ECHA or Health

Canada as a carcinogen are present at 0.1% or more.

TERATOGENICITY No data available to indicate product or any components contained at greater than 0.1%

may cause birth defects.

MUTAGENICITY

No data available to indicate product or any components present at greater than 0.1%

are mutagenic or genotoxic.

HEALTH WARNINGS INHALATION. Spray mist can irritate airways and lungs.

SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying

of the skin

EYE CONTACT. May cause slight eye irritation. INGESTION. Can cause stomach ache and vomiting.

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

TARGET ORGANS Eyes. Respiratory system, lungs. Mucous membranes. Skin.

MEDICAL INFORMATIONConditions aggravated by exposure may include:

Allergies.

Chronic respiratory and obstructive airway diseases.

Skin disorders and allergies.

4. FIRST AID MEASURES

GENERAL Remove affected person from source of contamination.

Do not give victim anything to drink if he is unconscious.

INHALATION Move the exposed person to fresh air at once.

For breathing difficulties oxygen may be necessary.

When risk of unconsciousness, place and transport the victim in secured side position.

When unconscious, loosen tight clothing and position in secured side position.

Get medical attention if any discomfort continues.

EYES Promptly wash eyes with lots of water while lifting the eye lids.

Remove contact lenses after the initial 1-2 minutes and continue flushing .

Continue to rinse for at least 15 minutes and get medical attention.

Get medical attention if any discomfort continues.

SKIN Remove affected person from source of contamination.

Remove contaminated clothing.

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Launder contaminated clothing before reuse.

INGESTION Never give anything by mouth to an unconscious person.

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach

vomit doesn't enter the lungs.

When unconscious, loosen tight clothing and position in secure side position.

Consult a physician for specific advice.

Contact your local poison control center or get medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C) 224C (435 F) Cd OC (Cleveland open cup).

AUTO IGNITION TEMP. (°C) No data available

FLAMMABILITY CLASS 3.2 Combustible Liquid IIIB - Flash Point equal to or greater than 200°F.

EXTINGUISHING MEDIA Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).

SPECIAL FIRE FIGHTING

PROCEDURES

Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when

using water or foam as frothing may occur.

UNUSUAL FIRE & EXPLOSION

HAZARDS

Pressure will increase in over heated, closed containers. May ignite at very high

temperatures.

HAZARDOUS COMBUSTION

PRODUCTS

Acrid smoke/fumes. Oxides of: Carbon. Nitrogen.

PROTECTIVE MEASURES IN CASE

OF FIRE

Should wear positive pressure self-contained breathing apparatus (SCBA) and full

turnout gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Minimize skin contact. Remove sources of ignition.

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 Contain spill. Absorb small amounts. Collect and return large amounts to shipping

container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Do not reuse container.

Keep lid closed when not in use.

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is

above accepted level.

Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact.

Eye wash station should be available at the work place.

Keep away from heat, sparks and open flame. Containers should be kept tightly closed.

STORAGE PRECAUTIONS Keep container closed when not in use. Keep away from heat, sparks and open flame.

Store separate from strong acids and oxidizers.

STORAGE CRITERIA Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

 COMPONENT
 STD
 TWA
 STEL
 TWA
 STEL

 LUBRICATING OILS, PETROLEUM, BASE OILS,
 OSHA
 None
 None
 5 mg/m3 (oil mist)
 None

HIGHLY REFINED (<3% IP346 DMSO Extracts)

ACGIH None None 5 mg/m3 (oil mist) 10 mg/m3 (oil mist)

PROTECTIVE EQUIPMENT





ENGINEERING CONTROLS Provide eyewash and hand washing facilities. Provide exhaust ventilation or other

engineering controls to maintain the airborne vapor concentrations below their

respective OSHA permissible exposure levels.

VENTILATIONNo specific ventilation requirements noted, but forced ventilation may still be required if

air contamination exceeds acceptable level.

RESPIRATORSNo 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.

EYE PROTECTION Wear chemical safety goggles where eye exposure is reasonably probable.

Safety glasses equipped with side shields are recommended as minimum protection in

industrial settings.

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

HYGIENIC WORK PRACTICES Wash promptly with soap & water if skin becomes contaminated.

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

Promptly remove any clothing that becomes wet or contaminated.

Isolate contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE Grease.

COLOR Amber.

ODOR Mild (or faint). Petroleum.

SOLUBILITY DESCRIPTION Insoluble in water.

BOILING POINT (°C, range) No data available **Pressure**

No data available MELT./FREEZ. POINT (°C, interval)

0.9000 **SPECIFIC GRAVITY**

No data available VAPOR DENSITY (air=1)

143 cSt Temperature (°C) 40 C (104 F) VISCOSITY (interval)

No data available **VOLATILE ORGANIC CONTENT**

10. STABILITY AND REACTIVITY

STABILITY Normally stable.

CONDITIONS TO AVOID Avoid contact with acids. Strong oxidizing agents.

Will not occur. HAZARDOUS POLYMERIZATION

HAZARDOUS DECOMPOSITION

PRODUCTS

Oxides of: Carbon. Nitrogen.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA Irritating effects. Eye. = Non irritating to mildly irritating on contact (based on

components)

Irritating effects. Skin. = Non irritating to mildly irritating (based on components)

Sensitization. Skin. = Not expected to be a sensitizer (based on components)

Mutagenicity. = Not expected to be mutagenic or genotoxic (based on components)

Carcinogenicity. = Not expected to be carcinogenic (based on components)

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

> 5000 (Calculated based on components) mg/kg (oral rat) **TOXIC DOSE - LD 50**

> 2000 (Calculated based on components) mg/kg (skn rbt) **TOXIC DOSE - LD 50 SKIN**

> 2.18 (Calculated based on components) mg/l/4h (inh-rat) **TOXIC CONC. - LC 50**

COMPONENT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3%

IP346 DMSO Extracts)

WHMIS (Canada) = Not a controlled product **TOXICOLOGICAL DATA**

Irritating effects. Eye. Rabbit. = Non-irritating to mildly irritating (Test data and Read

across)

Irritating effects. Skin. Rabbit. = Non-irritating to mildly irritating (Test data and Read

across)

Sensitization. Guinea pig. = Not known to be a sensitizer (Test data and Read across)

Acute toxicity. Inhalation. Rat. = Single acute aerosol exposure resulted in eye, nose, and throat as well as G. I. tract irritation and in some cases, acute lung damage that

caused death.

> 5,000 (Test data and Read across) mg/kg (oral rat) **TOXIC DOSE - LD 50 TOXIC DOSE - LD 50 SKIN**

> 2,000 - 5,000 (Test data and Read across) mg/kg (skn rbt)

TOXIC CONC. - LC 50

2.18 - >4 (Test data and Read across) mg/l (inh-rat)

GENOTOXICITY Not mutagenic or genotoxic due to no or low concentration of 3-7 ring PACs (test data

and Read across).

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION There is no ecological data on the product itself.

BIOACCUMULATION No bioaccumulation expected. (based on test data on similar components)

BIODEGRADABILITY

The chemical is slowly, not readily biodegradable. (based on test data on similar

components)

ACUTE AQUATIC TOXICITY Not expected to be acutely harmful to aquatic oranisms.

COMPONENT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3%

IP346 DMSO Extracts)

ECOTOXICOLOGICAL DATABioaccumulation. No data available

Biodegradability. Not readily biodegradeable, but inherently biodegradeable (Test data

and Read across)

LC50, 96 HRS, FISH, mg/l

> 100 to > 1000 mg/L WAF (Test data and Read across)

EC50, 48 HRS, DAPHNIA, mg/l

> 10000 mg/L WAF (Read across)

EC50, 72 HRS, ALGAE, mg/l

LLo (96 hour)= 500 WAF (Test data and Read across)

13. DISPOSAL CONSIDERATIONS

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

accordance with local, state and federal regulations.

WASTE CLASSIFICATION Under RCRA it is the responsibility of the user of the product to determine at the time of

disposal, whether the product meets RCRA criteria for a hazardous waste. State and

local regulations should also be consulted regarding proper disposal.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Not regulated

TDGR SHIPPING NAME Not regulated

SEA TRANSPORT NOTESNot regulated per IMDG.

AIR TRANSPORT NOTES Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT SARA 302 CERCLA SARA 313

LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346

DMSO Extracts)

No No No

CLEAN AIR ACT

CAA Accidental Release Prevention COMPONENT

LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346

DMSO Extracts)

No

Acute SARA HAZARD CATEGORIES

US STATE REGULATIONS

COMPONENT CA RI MA FL MN NJ PA LUBRICATING OILS, PETROLEUM, BASE OILS, No No No No No No No

HIGHLY REFINED (<3% IP346 DMSO Extracts)

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) STATE REGULATORY STATUS 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: None

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.

None.

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.

CONTROLLED PRODUCT **CLASSIFICATION**

Not a controlled product.

Risk Phrases and Classification Applicable in the European Union (EU): Risk phrases

Not classified as hazardous per Directives 67/548/EEC and 1999/45/EEC as well as

Regulations (EC) No 1907/2006 and 1272/2008.

GLOBAL INVENTORIES

US ΕU KOR PHLP CHN **COMPONENT** CAN **AUS JAP**

LUBRICATING OILS, PETROLEUM, BASE OILS, DSL **EINECS** Yes Yes Yes Yes Yes Yes

HIGHLY REFINED (<3% IP346 DMSO Extracts)

TSCA 12(b) Export Notification COMPONENT

LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 No

DMSO Extracts)

This product contains one or more components that are NOT LISTED on the US Toxic **USA (TSCA)**

Substances Control Act (TSCA) Inventory and are NOT EXEMPT from TSCA Inventory

requirements.

This product contains one or more components that are NOT LISTED on the Canada CANADA (DSL)

Domestic Substances List (DSL) and are NOT EXEMPT from DSL requirements.

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

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)

This product contains one or more components that are NOT LISTED on the Japan

Inventory of Existing and New Chemical Substances (ENCS) and are NOT 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

REACTIVITY Normally stable (0) - HMIS/NFPA

PERSONAL PROTECTION INDEX B - Safety Eyewear and Gloves

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

Tariff Code (Schedule B) US EXPORT: US HTS SCHEDULE B CODE (2010): 2710.19.3750 Lubricating greases,

with or without additives.

US IMPORT: US HTS CODE (2010): 2710.19.4000 Petroleum oils ... Lubricating oils

and greases ... Greases: Other

EU CN CODE: 2710 19 99 Other lubricating oils and other oils.

PREPARED BY Regulatory Department, Chemtool, Incorporated

REVISION No. 1.2

Replacement of MSDS generated 2006-05-04

MSDS No. 13213

DATE 2010-09-24

DISCLAIMERWhile the information and recommendations set forth herein are believed to be accurate

as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto

and disclaims all liability from reliance therein.

PRINTING DATE: 2010-09-24

^{*} Information revised since previous MSDS version