

MATERIAL SAFETY DATA SHEET

SYN-TAC M5 GREASE

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME SYN-TAC M5 GREASE

PART No. 2869-567

SYNONYMS IMPACT HAMMER GREASE

PRODUCT USE Lubricating Grease

SUPPLIER W.H. Lubricants Ltd.

185 Frobisher Drive

Waterloo, Ontario

(519)746-7720

EMERGENCY TELEPHONE Infotrac

U.S. and Canada - (800) 535-5053

Outside the U.S. and Canada - +01-352-323-3500

Date of last issue 2013-01-30

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME CAS No. WEIGHT

LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2) Mixture 50-70 %

OVERBASED CALCIUM SULFONATE COMPLEX THICKENER Proprietary 20-40 %

*MOLYBDENUM SULFIDE (MoS₂) 1317-33-5 2-6 %

OLEFIN COPOLYMER (OCP) VISCOSITY INDEX IMPROVER (VII) Proprietary 1-5 %

*BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT 26264-06-2 1-3 %

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

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;

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. 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. Exposure to vapors generated at high temperatures may cause respiratory irritation.

SENSITIZATION No known information.

CARCINOGENICITY IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.

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. Inhalation of product vapor or mist may cause irritation of mucous membranes in nasal passages and throat. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating.

INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

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

MEDICAL SYMPTOMS MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

4. FIRST AID MEASURES

INHALATION Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed

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person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

EYES Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.

SKIN Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

INGESTION DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C) 246 (475°F) Cd OC (Cleveland open cup).

FLAMMABILITY LIMIT - LOWER(%) N/D

FLAMMABILITY LIMIT - UPPER(%) N/D

EXTINGUISHING MEDIA Use: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.

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

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION

PRODUCTS

Acrid smoke/fumes. Oxides of: Carbon. 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 Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

7. HANDLING AND STORAGE

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

above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

STORAGE CRITERIA Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT STD TWA STEL TWA STEL

LUBRICATING OILS, PETROLEUM, BASE OILS,
HIGHLY REFINED**(2)

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OSHA 5 mg/m³ (oil mist)

ACGIH 5 mg/m³ (oil mist) 10 mg/m³ (oil mist)

OVERBASED CALCIUM SULFONATE COMPLEX

THICKENER

OSHA 15 mg/m³ (total) as CaCO₃ 5 mg/m³ (resp) as CaCO₃

ACGIH 1 mg/m³ (inh) NIC 2005 10 mg/m³ *(e) as CaCO₃

MOLYBDENUM SULFIDE (MoS₂) OSHA N/E

ACGIH 3 mg/m³ (resp) as Mo 10 mg/m³ (ihl) as Mo

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IMPROVER (VII)

OSHA 5 mg/m³ (oil mist)

ACGIH 5 mg/m³ (oil mist) 10 mg/m³ (oil mist)

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 recommended to prevent prolonged or repeated contact.

EYE PROTECTION Wear splash-proof eye goggles to prevent any possibility of eye contact.

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 Grey.

ODOR Mild (or faint). Petroleum.

SOLUBILITY DESCRIPTION Insoluble in water.

DENSITY 0.96 **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 occur.

POLYMERIZATION DESCRIPTION Not applicable

HAZARDOUS DECOMPOSITION

PRODUCTS

Oxides of: Carbon. Sulfur.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2)

TOXICOLOGICAL DATA Carcinogenicity. IP 346 <3%

TOXIC DOSE - LD 50 > 5000 mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN > 2000 mg/kg (skn rbt)

TOXIC CONC. - LC 50 N/A.

COMPONENT OVERBASED CALCIUM SULFONATE COMPLEX THICKENER

TOXIC DOSE - LD 50 > 2000 (estimated) mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN > 2000 (estimated) mg/kg (skn rbt)

TOXIC CONC. - LC 50 > 0.5 (estimated) mg/l (inh-rat)

COMPONENT MOLYBDENUM SULFIDE (MoS₂)

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TOXIC DOSE - LD 50 > 2000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN > 2000 mg/kg (skn rat)
TOXIC CONC. - LC 50 > 2820 ppm/4h (inh-rat)

12. ECOLOGICAL INFORMATION

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

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.

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 SARA 313

OVERBASED CALCIUM SULFONATE COMPLEX THICKENER No No No

MOLYBDENUM SULFIDE (MoS₂) No No No

OLEFIN COPOLYMER (OCP) VISCOSITY INDEX IMPROVER (VII) No No No

BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT No 1 000 lbs No

LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2) No No No

CLEAN AIR ACT

SARA HAZARD CATEGORIES None

US STATE REGULATIONS

COMPONENT CA MA FL MN NJ PA RI

LUBRICATING OILS, PETROLEUM, BASE OILS,
HIGHLY REFINED**(2)

Yes Yes

BENZENESULFONIC ACID, DODECYL-, CALCIUM
SALT

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:

1-Naphthylamine, CAS # 134-32-7

2-Naphthylamine, CAS # 91-59-8, <1ppm

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.

GLOBAL INVENTORIES

COMPONENT CAN US EU AUS JAP KOR PHL P CHN

LUBRICATING OILS, PETROLEUM, BASE OILS,
HIGHLY REFINED**(2)

DSL Yes EINECS Yes Yes Yes Yes Yes

OVERBASED CALCIUM SULFONATE COMPLEX
THICKENER

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MOLYBDENUM SULFIDE (MoS₂) DSL Yes EINECS Yes PRTR1 Yes Yes Yes

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IMPROVER (VII)

DSL Yes EINECS Yes Yes Yes Yes Yes

BENZENESULFONIC ACID, DODECYL-, CALCIUM

SALT

DSL Yes EINECS Yes Yes Yes Yes Yes

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

notification requirements under the Canadian Environmental Protection Act (CEPA).

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

REVISION COMMENTS Section 1: Name Change

Section 2: Ingredients

Replacement MSDS of 2009-04-13

DATE 2012-01-30

PRINTING DATE: 2012-01-30

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.

*** Information revised since previous MSDS version**