

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Macmillan Cutting Oil 170
Product Code:
Chemical Name: Cutting Oil
Chemical Family: Petroleum Hydrocarbons and Additives
Manufacturer: Scot Lubricants
1801 E. Tremont Street
P.O. Box 326
Allentown, PA 18105

Emergency Telephone Numbers
Information: 610-433-2527 8am-5pm EST M-F
CHEMTREC: 800-424-9300 24 hrs every day

2. OCCUPATIONAL EXPOSURE LIMITS

OIL MIST, MINERAL SOURCE:	OIL MIST, MINERAL ACGIH	OSHA
DATE:	1989	1989
EXPOSURE LIMIT VALUE/TIME	5 MG/M3	5 MG/M3
SHORT TERM LIMIT/TIME	10 MG/M3	10 MG/M3
PEAK LIMIT	NOT ESTABLISHED	NOT ESTABLISHED

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: AMBER COLORED FLUID

ODOR: SLIGHT SULFUR ODOR

POTENTIAL HEALTH EFFECTS:

INHALATION: NO SIGNIFICANT EFFECTS UPON SHORT-TERM EXPOSURE

INGESTION: NO SIGNIFICANT HEALTH EFFECTS UPON SHORT-TERM EXPOSURE

EYE CONTACT: NON IRRITATING UPON SHORT-TERM EXPOSURE

SKIN CONTACT: NO SIGNIFICANT HEALTH EFFECTS UPON SHORT-TERM EXPOSURE

SKIN ABSORPTION: MILD SKIN IRRITATION MAY OCCUR UPON SHORT-TERM DIRECT CONTACT

CARCINOGEN LISTED BY: IARC (NO) NTP (NO) OSHA (NO) ACGIH (NO) OTHER (NO)

NFPA/HMIS CLASSIFICATION

TOXICITY - 0/0
FLAMMABILITY - 1/1
REACTIVITY - 0/0

HAZARD RATING

0=LEAST 1=SLIGHT
2=MODERATE 3=HIGH
4=EXTREME

4. FIRST AID MEASURES

INHALATION: Move to fresh air. Restore and/or support breathing as required.

EYE CONTACT: Immediately flush with water for at least 15 minutes. Retract eyelids often. Obtain emergency medical attention.

SKIN CONTACT: Remove by wiping, then wash with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes.

INGESTION: If more than a half-cup full of this material is swallowed, give quantities of water. Induce vomiting and obtain medical attention.

5. FIRE AND EXPLOSION

FLASHPOINT (METHOD): 310°F (D-92)

FLAMMABLE LIMITS: Lower – N/AP Upper – N/AP

AUTO-IGNITION TEMP: AP 600° F (est.) Based on distillate components

EXTINGUISHING MEDIA: Dry chemical, halon, and carbon dioxide. Foam and water fog are effective but may cause frothing.

FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter and enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effect of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water. Burning liquid will float on water. Notify appropriate authorities if liquid enters sewer/waterways.

FIRE FIGHTING EQUIPMENT: Exposed firefighters should wear OSHA/NIOSH approved self-contained breathing apparatus, with full-face mask and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Slightly combustible. When heated above its flash point, this material will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to an ignition source. Mists or sprays may be flammable at temperatures below the normal flash point. Keep away from extreme heat and open flame.

CAUTION—SLIGHTLY COMBUSTIBLE! OSHA/NFPA CLASS III B COMBUSTIBLE LIQUID.

6. ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Contain spill and prevent it from entering all water bodies. If possible, safely stop flow of spill. Evacuate non-essential personnel from immediate spill area, due to slipping hazards. In urban area, cleanup as soon as possible. In natural environments, cleanup on advice from ecologists. This material will float on water. Absorbent pads and materials can be used. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800 / 424-8802). The spilled material and any soap or water it has contacted may be hazardous to animal or aquatic life.

7. EMERGENCY AND FIRST AID

INHALATION: Remove individual (s) to fresh air.

EYE CONTACT: Flush with water 15 minutes, retracting eyelids often.

SKIN CONTACT: Wash thoroughly with soap and water.

INGESTION: Contact physician immediately. If amount swallowed is more than ½ cup, induce vomiting. Give quantities of water.

NOTE TO PHYSICIAN: None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use adequate ventilation to keep oil mists of this material below applicable standards. (See Section VI-Occupational Exposure Limits.)

EYES: Eye protection should be worn if misting or splashing cannot be avoided. Hard contact lenses should not be worn. Suitable eyewash water should be available in the vicinity of any potential exposure.

RESPIRATORY: None is needed under normal conditions with adequate ventilation. If exposure exceeds the control limits, respiratory protective equipment which meets 29CFR 1910.134 and is NIOSH/OSHA approved must be worn.

SKIN: Avoid prolonged or repeated skin contact. If conditions or frequency of use makes contact likely, wear clean and impervious protective clothing, such as gloves, boots, and facial protection.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION – cont'd

OTHER: Wash hands with plenty of soap and water before eating, drinking, smoking, or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated leather gloves and shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: AMBER FLUID / SLIGHT SULFUR ODOR

BOILING POINT: 45° C

DRY POINT: N/D

VAPOR SPECIFIC GRAVITY: (AIR = 1.0 AT 60° - 90° F)

SPECIFIC GRAVITY: (H.O. =1 at 39.2° F)

VOLATILE CHARACTERISTICS: NEGLIGIBLE

FREEZING POINT: N/D

SOLUBILITY IN WATER: NEGLIGIBLE

VAPOR PRESSURE: 1 MM HG A

EVAPORATION RATE: VERY SLOW

10. COMPONENTS

Component Name	CAS No.	Carcinogen ##		Composition amount (WT)
Distillate (Petro.), Hydro treated Light Naphthenic	64742-53-5	N/AP	GT	62 percent
Distillate (Petro.), Hydro treated Heavy Naphthenic	64742-52-5	N/AP	AP	36 percent
Polysulfides	68425-16-1	N/AP	LT	2 percent

(This may not be a complete list of components)

11. STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: EXTREME HEAT OR OPEN FLAME

MATERIALS TO AVOID: STRONG ACIDS, ALKALIES, AND OXIDIZERS, SUCH AS LIQUID CHLORINE AND OXYGEN.

HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR.

HAZARDOUS DECOMPOSITION: BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE AND OTHER HARMFUL GASES/VAPORS, INCLUDING OXIDES AND/OR COMPOUNDS OF SULFUR, POSSIBLY HYDROGEN SULFIDES.

12. ADDITIONAL PRECAUTIONS

Adding any supplemental chemical do this product, diluted or undiluted, at its point-of-use should be done only after careful consideration of possible occupational health effects. Since specific exposure standards/control limits have not been established for this material, the exposure limits shown in Section II are suggested as minimum control guidelines. Protect against thermal burns to skin and eyes if material is processed or handled hot.

13. TRANSPORTATION INFORMATION

DOT

PROPER SHIPPING NAME	Petroleum Cutting Oil (not defined as "hazardous material")
HAZARD CLASS	Not regulated
ID NUMBER	Not regulated
LABEL REQUIRED	Not regulated
IMDG PROPER SHIPPING NAME	N.D.
IATA PROPER SHIPPING NAME	N.D.

**SCOT LUBRICANTS OF PA, INC.
1801 E. TREMONT STREET
P.O. BOX 326
ALLENTOWN, PA 18105
610-433-2527**

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