MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product name: STARRETT TOOL AND INSTRUMENT OIL (1620)
Product use: Lubricating oil

Supplier name and address:

L.S. Starrett Company of Canada Ltd.
1244 Kamato Road
Mississauga, Ontario
L4W 1Y1

Emergency Tel. #: (1-905) 624-2750

Manufacturer name and address:

William F. Nye, Inc.
12 Howland Road
Fairhaven, Massachusetts, USA
02719

Emergency Tel. #: (1-508) 996-6721

THIS PRODUCT IS NOT CONTROLLED UNDER THE WHMIS REGULATIONS.

SECTION II - INGREDIENTS

Ingredients	CAS #	%	LC_{50} ppm (Inhalation)	LD_{50} mg/kg (Oral)
White mineral oil	8042-47-5	97.8	N/Av	N/Av

SECTION III - PHYSICAL DATA

Physical state, odour and appearance: Pale yellow liquid oil, no odour.
Odour threshold: N/Av
Specific gravity: 0.89 @ 20°C
Coefficient of water/oil distribution: N/Av
Vapour pressure (mm Hg): Negligible.
Boiling point: N/Av. Material is not volatile.
Freezing point: - 26°C
pH: N/Av
Vapour density (Air = 1): Heavier than air.
Evaporation rate (BuAc = 1): Negligible.
Volatiles, %: 0%
Solubility in water: Insoluble.

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Non-flammable under normal conditions. May be ignited if exposed to intense heat or flames.
Means of extinction: Carbon dioxide, dry chemical, foam or water spray. Avoid smoke inhalation. Water or foam may cause frothing in contact with burning or heated material.
Sensitivity to mechanical impact/static discharge: Material is not sensitive to impact or to static discharge.
Flash point (Method): 187.8°C (COC)
Upper/Lower flammable limits (% by volume): N/Av
Auto-ignition temperature: N/Av
Hazardous combustion products: Combustion produces carbon dioxide, carbon monoxide and trace amounts of other toxic fumes.

SECTION V - REACTIVITY DATA

Stability: Stable under normal conditions. Hazardous polymerization does not occur.
Incompatible materials: Strong oxidizing materials such as nitric acid or peroxides.
Conditions of reactivity: May decompose if heated to extreme temperatures. Avoid pyrolysis. Does not react with water.
Hazardous decomposition products: See "Hazardous combustion products".

SECTION VI - TOXICOLOGICAL PROPERTIES

**** Routes of exposure and acute effects ****

LD_{50} of material: N/Av **LC_{50} of material:** N/Av
Exposure limit: ACGIH-TLV-TWA: NONE ESTABLISHED, though at high temperatures the limit for airborne concentrations is 5 mg/m^3 for oil mist in air.
Inhalation: Should not cause any health effects during normal use. Inhalation of vapours or mists at high temperatures may cause respiratory passage irritation.
Skin: Prolonged or repeated contact may cause irritation.
Eyes: Contact with liquid may cause mild irritation.
Ingestion: Ingestion is relatively non-toxic; however, the product has laxative properties and may cause abdominal cramps and diarrhea when ingested in large quantities.
Chronic effects: Carcinogenicity: Not listed as a carcinogen by IARC or ACGIH-TLV. Teratogenicity, mutagenicity, reproductive effects: N/Av
Sensitization to material: N/Av
Synergistic materials: N/Av

SECTION VII - FIRST AID

Inhalation: Remove victim to fresh air. Call a physician if breathing remains difficult after a few minutes.
Skin: Wash affected area with mild soap and water. If irritation persists, call a physician.
Eyes: Flush eyes thoroughly with running water. Consult a physician if irritation or difficulty seeing persists.
Ingestion: May have a laxative effect. Do not induce vomiting. If vomiting occurs naturally, prevent aspiration by placing victim with head below hips. Contact a physician.

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: For large spills, start by pumping up free liquid. Add absorbent such as sand, earth or sawdust to the spill area. Scoop up contaminated absorbent and place in a closeable container, properly labelled. Close container tightly. After removing absorbent, wash walking surfaces thoroughly with detergent and water to reduce slipping hazard.
Waste disposal: Comply with all federal, provincial and local regulations regarding disposal of non-hazardous waste oil.

PROTECTIVE EQUIPMENT

Respiratory protection: Not required unless mists, smoke or vapours area produced at high temperatures. If TLV is exceeded or if high temperature use produces toxic products, wear a NIOSH-approved supplied-air respirator.
Ventilation: None needed unless mists, smoke or vapours are produced at high temperatures.
Protective gloves: Impervious gloves such as neoprene recommended to avoid prolonged or repeated skin contact.
Eye protection: Chemical safety goggles or safety glasses with side shields recommended, especially if splashing is likely..
Other protective equipment: Maintain an eye-wash station in the work area.

STORAGE AND HANDLING

Handling procedures and equipment: Avoid skin or eye contact. Exercise ordinary measures of personal hygiene. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before smoking. Exercise ordinary care in handling chemicals.
Storage requirements: Store in a cool, dry, well-ventilated area, away from incompatibles.
Special shipping information: N/Av

Additional notes or references:

Abbreviations:

N/Av:	Not available
N/Ap:	Not applicable
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Governmental Industrial Hygienists
NIOSH:	National Institute for Occupational Health and Safety.
TLV-TWA:	Threshold Limit Values, Time Weighted Average

References:

1. Van Nostrand Reinhold, Dangerous Properties of Industrial Materials, Seventh Edition, N. Irving Sax.
2. Canadian Centre for Occupational Health and Safety. RTECS (Registry of Toxic Effects) database.
3. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1987-88.
4. International Agency for Research on Cancer Monographs, Supplement 7, 1988.

SECTION IX - PREPARATION INFORMATION

Prepared by: L.S. Starrett Company of Canada Ltd. Telephone#: 1-905-624-2750

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