



## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BUEHLER POLISHING OIL

IDENTIFICATION NUMBER: 40-8142

PRODUCT USE/CLASS: Polishing Oil

SUPPLIER:

BUEHLER, a division of Illinois Tool Works Inc.

41 WAUKEGAN ROAD

LAKE BLUFF, IL 60044

EMERGENCY: 800-424-9300

INFORMATION: 847-295-6500

PREPARER: Technical Department, 847-295-6500

PREPARE DATE: 03/23/09, 23 March 2009

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Petroleum middle distillate	64741-44-2	60.0-100.0

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL - CEILING	COMPANY TLV-TWA	SKIN
01	5 mg/m <sup>3</sup>	N.E.	5 mg/m <sup>3</sup>	N.E.	N.E.	NO

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

### SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful if swallowed. Vapors irritating to respiratory tract. Suspect cancer hazard. Irritating to skin. May be harmful if absorbed through skin.

ACUTE EFFECTS – EYE CONTACT: Mechanical irritant. Contact may cause tearing and redness.

ACUTE EFFECTS - SKIN CONTACT: Irritant. Contact may cause defatting and redness. Repeated or prolonged contact may cause dermatitis.

ACUTE EFFECTS – INHALATION: Liquid aspirated into lungs may cause chemical pneumonitis. May cause headaches and dizziness. Prolonged exposure may cause central nervous system depression.

ACUTE EFFECTS - INGESTION: May cause nausea and vomiting. May be harmful or fatal if swallowed and aspirated into lungs.

CHRONIC OVEREXPOSURE EFFECTS: \*Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. \*Oils such as the one used in this material have been listed by IARC as a suspected carcinogen via inhalation. Skin painting studies in animals have shown that prolonged dermal contact produces a weak to moderate carcinogenic activity. Repeated dermal application of high levels of material on animals resulted in liver and kidney damage. Materials similar to this product have tested positive in "in vivo" mutagenic and cytogenic assays.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INGESTION

### SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Flush skin with water; follow with a thorough soap and water wash. Remove and wash contaminated clothing. Get medical attention if irritation develops or persists. If material is injected beneath the skin, get medical attention IMMEDIATELY.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: If swallowed, gastric lavage is recommended. Treat symptomatically.

## SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: 225 F (PENSKEY-MARTENS C.C.)

LOWER EXPLOSIVE LIMIT: 0.7 %

UPPER EXPLOSIVE LIMIT: 6.0 %

AUTOIGNITION TEMPERATURE: No data

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Treat as petroleum fire. Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Prevent material from entering drains, soil, and waterways. Contaminated material should be swept or shoveled into appropriate waste container and disposed of in accordance with applicable federal, state and local regulations.

## SECTION 7 – HANDLING AND STORAGE

HANDLING: Wash hands before eating. Avoid prolonged or repeated contact with skin. DO NOT take internally. FOR INDUSTRIAL USE ONLY.

STORAGE: Store away from heat. KEEP OUT OF THE REACH OF CHILDREN.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local ventilation as needed to control vapor levels to below lowest component TLV/PEL and respiratory effects level.

**RESPIRATORY PROTECTION:** None normally required under general ventilation. If exposure levels are unknown, if levels exceed TLV/PEL, or if effects occur, use NIOSH-approved dust/mist respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

**SKIN PROTECTION:** Clean clothing to cover skin. Cloth or synthetic gloves.

**EYE PROTECTION:** Safety glasses.

**OTHER PROTECTIVE EQUIPMENT:** Accessible eye wash and safety shower.

**HYGIENIC PRACTICES:** Follow good general industrial safety practices during use. DO NOT reuse empty containers without commercial clean or recondition. Follow all MSDS/label precautions even after container is emptied.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING RANGE:</b>	475 - 610 F	<b>VAPOR DENSITY:</b>	Is heavier than air
<b>ODOR:</b>	Oil/solvent	<b>ODOR THRESHOLD:</b>	No data
<b>APPEARANCE:</b>	Clear	<b>EVAPORATION RATE:</b>	Is slower than Butyl Acetate
<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Insoluble		
<b>FREEZE POINT:</b>	-35 deg F	<b>SPECIFIC GRAVITY:</b>	0.8225
<b>VAPOR PRESSURE:</b>	<0.1mmHg @ 20C	<b>pH @ 0.0%:</b>	N.A.
<b>PHYSICAL STATE:</b>	Liquid	<b>VISCOSITY:</b>	Low
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	No data		

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

## SECTION 10 – STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Prolonged exposure to heat.

**INCOMPATIBILITY:** Strong bases or oxidants.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon. Various hydrocarbons

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## SECTION 11 – TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

## SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

## SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. DO NOT landfill free liquid. Product disposed of in “as sold” condition is not considered a hazardous waste per Federal RCRA regulations. Fuels blending recommended if regulations permit.

## SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.

HAZARD SUBCLASS: N.A.

DOT UN/NA CLASS: N.A.

PACKAGING GROUP: N.A.

RESP. GUIDE PAGE:

INTERNATIONAL SHIPPING NAME: Not regulated

INTERNATIONAL ID NUMBER: N.A.

IMDG CLASS (1°, 2°): N.A.

IMDG PAGE NUMBER: N.A.

IMDG EMS: N.A.

IATA CLASS (1°, 2°): N.A.

## SECTION 15 – REGULATORY INFORMATION

OSHA: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD

CERCLA – SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED, AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD

SARA SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 AND 40 CFR PART 372:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN

No SARA Section 313 components exist in this product.

TOXIC SUBSTANCE CONTROL ACT: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE ON THE TSCA SECTION 8 INVENTORY. THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

----- CHEMICAL NAME ----- CAS NUMBER

No components found.

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP 5 COMPONENTS IN THIS PRODUCT: NONE

PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%: NONE

CALIFORNIA PROPOSTION 65: No Proposition 65 chemicals known to exist in this product.

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: D2B

COMPONENT RCRA CLASSIFICATIONS: Not regulated

COMPONENT RCRA CODES: No information.

CERCLA RQ VALUE (MINIMUM): None known

## SECTION 16 – OTHER INFORMATION

### HMIS RATINGS

HEALTH: 2\*

FLAMMABILITY: 1

REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 05/15/06; 15 May 06

REASON FOR REVISION: Administrative change for new format.

VOLATILE ORGANIC COMPOUNDS: 821 grams/ltr (calculated)

### LEGEND:

N.A. – NO INFORMATION

N.E. – NOT ESTABLISHED

N.D. – NOT DETERMINED

ABBREVIATIONS: ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS; OSHA = OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION; TLV-TWA = THRESHOLD LIMIT VALUE – TIME WEIGHTED AVERAGE (8 HOURS); STEL = SHORT-TERM EXPOSURE LIMIT (15 MINUTES); C = CEILING VALUE; PEL = PERMISSIBLE EXPOSURE LIMIT

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