

MATERIAL SAFETY DATA SHEET



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PRODUCT RELATED HEALTH DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Air Motor Lubricant for Binks ® Infinity Pumps™

Binks Part No. 40163, 62274, 863020

MSDS #: MSDS-17 REVISION #: 2.1.2

DATE REVISED: 9/22/06 DATE PREPARED: 8/20/03

ITW Industrial Finishing - Binks

195 Internationale Blvd.

Glendale Heights, IL 60139

Emergency Number - INFOTRAC

EMERGENCY PHONE (24 HOURS):

1-800-535-5053

630-237-5000

CHEMICAL FORMULA:

CAS NUMBER: DERIVATION: Not Applicable.

SYNONYMS: gear oil

GENERAL USE: Lubrication

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS

<u>CAS REG NO.</u>	<u>WGT. %</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>	<u>UNITS</u>
Mixture						
Heavy duty gear oil 100%						
Solvent refined hydrotreated Heavy paraffinic distillate 64742-54-7	40-59.99%	5.0	10.0	5.0	10.0	mg/m3
Hydrotreated residual oil 64742-57-0	40-59.99%	5.0	10.0	5.0	10.0	mg/m3
Solvent de-waxed heavy Paraffinic Petroleum distillate 64742-65-0	50-64.99%	5.0	10.0	5.0	10.0	mg/m3
Olenfin sulfide	3-9.99%					
Alkykamine salt of phosphoric Acid esters	1-2.99%					
Mixture Proprietary Additives	1-2.99%					

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Red green bloom liquid

POTENTIAL HEALTH EFFECTS: No known immediate health hazards.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation as noted below.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ACUTE EFFECTS:

Eye: May cause minimal eye irritation.

Skin: Not expected to be a hazard in normal industrial use. Lubricating oils are generally considered no more than minimally irritating to the skin. Prolonged and repeated contact may result in defatting and drying of the skin that may cause skin disorders such as dermatitis, folliculitis, or oil acne.

Ingestion: Not expected to be a hazard in normal industrial use. Lubricating oils are no more than slightly toxic if swallowed.

Inhalation: Inhalation of vapors (generated at high temperature only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

CHRONIC EFFECTS: No known chronic health effects.

CARCINOGENICITY: Not listed as a carcinogen by the NTP, IARC, or OSHA.

TARGET ORGAN EFFECTS: None known under normal use.

MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure to this product.

OTHER INFORMATION: None known.

4. FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

SKIN CONTACT: Flush exposed area with water and follow by washing with soap. Remove contaminated clothing, wash skin with soap and water. Get medical attention if skin irritation develops or persists.

INGESTION: Do not induce vomiting. In general, no treatment is necessary unless large quantities of the product are ingested. However, get medical attention.

Note to Physician: In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

INHALATION: Remove immediately to fresh air and provide oxygen if breathing is difficult. Get medical attention.

OTHER INFORMATION: None known.

5. FIRE FIGHTING MEASURES

FLASH POINT (method): 424 degrees F 217.78 degrees C (Cleveland Open Cup)

AUTOIGNITION TEMPERATURE: Not Determined

LOWER EXPLOSION LIMIT: Not Applicable.

UPPER EXPLOSION LIMIT: Not Applicable.

FLAMMABILITY CLASS:

EXTINGUISHING MEDIA: Water fog, 'alcohol foam', dry chemical or carbon dioxide. Do not use a direct stream of water.

HAZARDOUS COMBUSTION PRODUCTS: Aldehydes, Carbon Monoxide, Keytones, Carbon Dioxide, and other unidentified organic compounds.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Determined.

FIRE-FIGHTING INSTRUCTIONS/EQUIPMENT: Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

NFPA RATING: See Section 15.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wearing appropriate personal protective equipment, collect spill with the aid of an inert absorbent and place in suitable containers for disposal.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Use appropriate personal protective equipment. Avoid eye, skin, and clothing contact.

STORAGE REQUIREMENTS: Store in a cool, dry area, well-ventilated area away from incompatible materials. Keep away from open flames and high temperatures. Protect containers against damage. Use explosion proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

OTHER PRECAUTIONS: Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Adequate ventilation to control airborne concentrations below the exposure guideline/limits.

EYE and FACE PROTECTION: Chemical safety goggles or safety glasses with side shields

SKIN and HAND PROTECTION: Gloves - Neoprene or Nitrile Rubber

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approve cartridge respirator if misting or vapor occurs, or there is potential for airborne exposures to exceed threshold values. Consult OSHA respiratory protection information located in 29 CFR 1910.134 and ANSI Practice of Respiratory Protection Z88.2.

OTHER PERSONAL PROTECTIVE EQUIPMENT: No information available

EXPOSURE GUIDELINES: See section 2

WORK HYGIENIC PRACTICES: Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Red green bloom

PHYSICAL STATE: liquid

ODOR: Slight hydrocarbon odor

ODOR THRESHOLD (PPM): Not Available

SPECIFIC GRAVITY (WATER=1): 0.8887 cSt

SOLUBILITY IN WATER (20 C): Insoluble

SOLUBILITY IN FAT: Not Applicable

COEFFICIENT of WATER/OIL SOLUBILITY: Not available

PARTITION COEFFICIENT (n-octanol/water): Not available

pH: Not Applicable

MELTING POINT: Not available

BOILING POINT: Not available

VAPOR PRESSURE (20 C) (MM HG): Not available

VAPOR DENSITY (AIR=1): Not available

EVAPORATION RATE (n-BUTYL ACETATE=1): Not available

V.O.C.: Not available

FLASH POINT: / **AUTO IGNITION TEMPERATURE:** / **FLAMMABILITY CLASSIFICATION:**
/ **UNUSUAL FIRE or EXPLOSION HAZARDS:** See Section 5

OXIDIZING PROPERTIES: None Known.

OTHER INFORMATION: None.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions and handling and use.

HAZARDOUS POLYMERIZATION: Will Not Occur.

CONDITIONS TO AVOID: Excessive heat and open flames

CHEMICALS TO AVOID: Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce the following: Aldehydes, Carbon Monoxide, Ketones, Carbon Dioxide, and other unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

VALUE (LD50 or LC 50)	ANIMAL	ROUTES	COMPONENTS
>5.0 g/kg LD50	Rabbit	Acute Toxicity Dermal	Product
<15/110 Draize	Rabbit 24 hours	Acute Toxicity Eye	Product
>5.0 g/kg LD50	Rat	Acute Toxicity Oral	Product
<2.0 Draize	Rabbit	Acute Toxicity Skin Irritant	Product

TOXICOLOGICAL INFORMATION: This product is non-toxic/nonirritating.

ADDITIONAL INFORMATION: Carcinogenicity Classification: Heavy-duty Gear Oil. NTP: No IARC: Not reviewed ACGIH: No OSHA: No

12. ECOLOGICAL INFORMATION

MOBILITY: Not Determined.

DEGRADABILITY: Not Determined.

ACCUMULATION: Not Determined.

ECOTOXICITY: Not Determined.

OTHER ADVERSE EFFECTS: This product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate. Avoid releasing to the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of waste at an approved disposal facility in compliance with all current Local, State/Province, and Federal/Canadian laws and regulations. If this product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner and in accordance with applicable regulations. Label precautions should be followed for any residual material in the container.

14. TRANSPORT INFORMATION

U.S. D.O.T. PROPER SHIPPING NAME: This material is not subject to DOT regulations under 49 CFR Parts 171-180.

Oil: This product is an oil under 49 CFR Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

IATA: Not regulated

IMO: Not regulated

15. REGULATORY INFORMATION

OSHA HAZARD STATUS: Product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200), because it carries the occupational exposure limit for mineral oil mist.

EPA SARA Sec. 311/ 312 HAZARD CATEGORIES: None.

TOXIC SUBSTANCES CONTROL ACT (TSCA): All component(s) of this material is (are) listed.

California Proposition 65: Not on list.

SARA Title III, Section 313, CHEMICALS: There are no components of this product on the SARA 313 list.

Other Chemical Inventories: Component(s) of this material is (are) listed on the Canadian DSL.

State Regulations: The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of this MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

NFPA: Health 1 - Flammability 1 - Reactivity 0

16. OTHER INFORMATION

MSDS PREPARED BY: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, ITW Industrial Finishing Binks makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will ITW Industrial Finishing - Binks be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

*** END OF MSDS ***