

MATERIAL SAFETY DATA SHEET



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PRODUCT RELATED HEALTH DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AIR MOTOR LUBRICANT

Binks Part No. 207-11155, 207-11155-1, 207-11155-2, 207-11155-3

MSDS #: MSDS-16

REVISION #: 2.2

DATE REVISED: 03/14/2007 DATE PREPARED: 08/19/2003

ITW Industrial Finishing - Binks

195 Internationale Blvd.

Glendale Heights, IL 60139

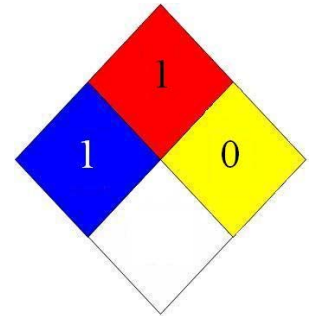
Emergency Number - INFOTRAC

EMERGENCY PHONE (24 HOURS):

1-800-535-5053

630-237-5000

GENERAL USE: Air motor lubricant



2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS							
INGREDIENTS/ CAS REG NO.	WGT .%	ACGIH TWA	ACGIH STEL	OSHA PEL	NIOSH	NOHSC TWA	UNITS
Zinc Compound/ PROPRIETARY	< 1%	Not Established	Not Established	Not Established	Not Established	Not Established	
NON-HAZARDOUS COMPONENTS							
INGREDIENTS/ CAS REG NO.	WGT .%	ACGIH TWA	ACGIH STEL	OSHA PEL	NIOSH	NOHSC TWA	UNITS
Lubricant Base Oil (Petroleum)/VARIOUS	>99%	5 mg/M3	10 mg/M3	5 mg/M3	2500 mg/M3 IDLH		mg per cubic meter
As Oil Mist, if generated						5 mg/M3	mg per cubic meter
Additives/ PROPRIETARY	<1%	Not Established	Not Established	Not Established	Not Established	Not Established	

The Base Oil for this product can be a mixture 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

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**PRIMARY EXPOSURE ROUTES: Skin - Eyes - Inhalation****ACUTE EFFECTS****Eye:** Eye irritant. Contact may cause stinging, watering, redness, and swelling.**Skin:** Contact may cause mild skin irritation including redness, and a burning sensation. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin leading to dermatitis (inflammation). Contact may result in skin absorption but symptoms of toxicity are not anticipated by this route alone under normal conditions of use.**Ingestion (Swallowing):** No harmful effects expected from ingestion.**Inhalation (Breathing):** No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.**CHRONIC EFFECTS****Eye:** No long-term adverse effects are known.**Skin:** No long-term adverse effects are known.**Ingestion:** No long-term adverse effects are known.**Inhalation:** May cause long-term adverse effects if not used properly.**CARCINOGENICITY:** The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. All of the oils meet the IP-345 criteria of less than 3 percent PAH's and therefore none are listed as a carcinogen by NTP, IARC, or OSHA.**TARGET ORGAN EFFECTS:** Inadequate data available for this material.**MEDICAL CONDITIONS AGGRAVATED by LONG-TERM EXPOSURE:** Conditions aggravated by exposure may include skin disorders.

4. FIRST AID MEASURES

EYE CONTACT: Move victim away from exposure. In case of contact, hold eyelids apart and flush the affected eye(s) with plenty of water for at least 15 minutes. Seek medical attention.**SKIN CONTACT:** Remove any contaminated shoes and clothing. Wipe material from skin. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.**INGESTION:** First Aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.**INHALATION:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.**NOTE TO PHYSICIANS:** Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.**NOTE TO PHYSICIANS:** High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

5. FIRE FIGHTING MEASURES

FLASH POINT (method): 365°F/185°C (COC)

FLAMMABLE LIMITS - LOWER EXPLOSION LIMIT: No data.

UPPER EXPLOSION LIMIT: No data.

FLAMMABILITY CLASS: None

EXTINGUISHING MEDIA: Foam, Dry Chemical, Carbon Dioxide or Water Spray (Fog) is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

HAZARDOUS COMBUSTION PRODUCTS: Combustion can yield major amounts of oxides of carbon and minor amounts of oxides of nitrogen, phosphorus, sulfur and zinc.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material may burn, but will not ignite readily. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire. Avoid contact with strong oxidizing agents. Empty containers retain residue. Do not cut, drill, grind, or weld, as they may explode.

FIRE-FIGHTING INSTRUCTIONS/EQUIPMENT: Cool exposed containers with water. Firefighters are to wear Full Bunker Gear and Self Contained Breathing Apparatus (SCBA) for fires beyond the incipient stage (29CFR1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate danger area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

HMIS RATING: See Section 15.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Isolate danger area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage system, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 1-800-424-8802).

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Keep containers closed when not in use. The use of respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "EMPTY" containers retain residue (liquid and/or vapor) and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. All containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

STORAGE REQUIREMENTS: Do not handle or store near heat, sparks, flame, or strong oxidants (see Section 10). Use and store this material in a cool, dry, well-ventilated area away from heat and all sources of ignition. Protect container(s) against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE and FACE PROTECTION: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Safety Glasses with Side Shields as good industrial practice. If chance of eye contact, wear goggles.

SKIN and HAND PROTECTION: The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation, and absorption. Use oil-resistant apron if needed.

RESPIRATORY PROTECTION: A NIOSH/MSHA approved air purifying respirator with a dust/mist filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2). Protection provided by air purifying respirators is limited (see manufacturers respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

OTHER PERSONAL PROTECTIVE EQUIPMENT: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

ENGINEERING CONTROLS: Local exhaust should be used to capture fumes and vapors. If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required.

ADMINISTRATIVE CONTROLS: Keep this and other chemicals out of reach of children: minimize body contact with this product as well as all chemicals in general.

OTHER INFORMATION: Remove oil-soaked clothing and launder before use. Use normal hygiene practice. Wash hands thoroughly before eating, drinking, smoking and using restroom after contact. Keep away from children.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear yellow

PHYSICAL STATE: Liquid

ODOR: Characteristic petroleum

ODOR THRESHOLD (PPM): Not established

SPECIFIC GRAVITY (H₂O=1): 0.86-0.89 @ 15°C

SOLUBILITY IN WATER (20°C): Negligible

SOLUBILITY IN FAT: Not Determined.

COEFFICIENT of WATER/OIL SOLUBILITY: Not Determined.

PARTITION COEFFICIENT (n-octanol/water): Not Determined.

pH: No data.

MELTING/FREEZING POINT: <5°F/-15°C

BOILING POINT: > 555°F/291°C.

EVAPORATION RATE (nBuAc=1): < 1

V.O.C.: Negligible

Vapor Density (Air=1): > 1

Vapor Pressure (mm Hg): Not determined

VISCOSITY cSt @ 100°C: 4.3-24.3

VISCOSITY cSt @ 40°C: 22-320

BULK DENSITY: 7.16-7.43 lbs/gal

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of storage and handling.

HAZARDOUS POLYMERIZATION: Will Not Occur.

CONDITIONS TO AVOID: Extended exposure to high temperatures can cause decomposition.

CHEMICALS TO AVOID: Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS (thermal): Combustion can yield major amounts of oxides of carbon and minor amounts of oxides of nitrogen, phosphorus, sulfur, and zinc.

11. TOXICOLOGICAL INFORMATION

SENSITIZATION TO PRODUCT: Not known.

IRRITANCY OF PRODUCT: Acute Data.

Lubricant Base Oil (Petroleum) - CAS: VARIOUS	Additives - CAS: PROPRIETARY	Zinc Compound(s) - CAS: PROPRIETARY
Dermal LD50 = >2 g/kg	Dermal LD50 = No information available	Dermal LD50 = No information available
LC50 = No information available	LC50 = No information available	LC50 = No information available
Oral LD50 = >5 g/kg	Oral LD50 = No information available	Oral LD50 = No information available

REPRODUCTIVE TOXICITY: Not known.

TERATOGENICITY: Not known.

MUTAGENICITY: Not known.

12. ECOLOGICAL INFORMATION

MOBILITY: Not Determined.

DEGRADABILITY: Not Determined.

ACCUMULATION: Not Determined.

ECOTOXICITY: Not Determined.

OTHER ADVERSE EFFECTS: Not Determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: This material under most intended uses would become used oil due to contamination by physical or chemical impurities. RECYCLE ALL USED OIL. While being recycled, used oil is regulated by 40 CFR 279. Use resulting in chemical or physical change or contamination may also subject it to regulation as hazardous waste. Under federal regulations, used oil is a solid waste managed under 40 CFR 279. However, in California, used oil is managed as hazardous waste until treated to show it is not hazardous. Consult state and local regulations regarding the proper handling of used oil. In the case of used oil, the intent to discard it may cause the used oil to be regulated as hazardous waste. Contents should be completely used and containers emptied prior to discard. Rinsate may be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or a drum re-conditioner. To assure proper disposal of small empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

U.S. D.O.T. PROPER SHIPPING DESCRIPTION: Not classified as hazardous.

HAZARD CLASS or DIVISION: NOT classified as hazardous.

IMDG SHIPPING DESCRIPTION: Not regulated.

ICAO/IATA SHIPPING DESCRIPTION: Not regulated.

15. REGULATORY INFORMATION

OSHA HAZARD STATUS: None.

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

WHMIS - Canada: Not a controlled product.

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

SARA Title III, Section 313, CHEMICALS: Zinc Compounds <1%, CAS Number: Proprietary

CALIFORNIA Proposition 65 - Safe Drinking Water and Toxic Enforcement Act Substances List: Not on List.

NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST: Not on List.

MASSACHUSETTS RIGHT-TO-KNOW SUBSTANCE LIST: Not on List.

PENNSYLVANIA HAZARDOUS SUBSTANCES LIST: Not on List.

NFPA RATING: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

HMIS RATING: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARDS 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 ***