

ISK BIOCIDES, INC.

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SWEDISH WOOD OIL™

Date of Last Revision: 6/17/02

I. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR:	Clear to hazy light yellow liquid with a mild petroleum odor.		
BOILING POINT (INITIAL) (F/C):	350/150	DENSITY (Lbs/Gal) (Water @20C = 8.33):	7.17
VAPOR PRESSURE (mm Hg):	<1	EVAPORATION RATE (nBuAC=1):	<1
VAPOR DENSITY (Air=1):	>1	SOLUBILITY IN WATER:	Insoluble
pH RANGE:	6.90 - 7.90	SPECIFIC GRAVITY:	0.86

II. HAZARDOUS INGREDIENTS (See Section X Also)

COMMON NAME	CHEMICAL NAME	C.A.S.#	%	OSHA PEL	ACGIH TLV
Petroleum Oil	Refined Lt. Paraffinic Dist.		70-80	5.0 mg/CuM	5.0 mg/CuM
Solvent	Proprietary		10-20	N/A	N/A

OSHA's Hazard Communication (Standard 29CFR 1910.1200) requires hazardous chemicals to be listed and the MSDS to identify the hazards associated with the product. This information must be included in all MSDS's that are copied and distributed for this product.

HMIS HAZARD RATINGS

Health Hazard: 2 Fire Hazard: 1 Reactivity: 0 Special Hazard: ----
(Based on the revised National Paint & Coatings Association Hazardous Materials Identification Rating System, 1984)

III. HEALTH HAZARD DATA (See Section IX Also)

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL CHEMTREC AT 1-800-424-9300

Primary Routes Of Entry: Inhalation Eyes Skin Ingestion

TOXICOLOGY DATA AND EFFECTS OF OVEREXPOSURE:

EYES:

Can cause severe irritation, redness, tearing, blurred vision. Can cause irreversible damage on prolonged contact.

INGESTION:

Acute Toxicity (Rat): LD50 Greater than 2,000 mg/kg. This toxicity data is based on studies conducted on primary raw materials. May be harmful or fatal if swallowed. Can cause central nervous system depression. Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

INHALATION:

Acute Toxicity (Rat): LC50 Greater than 2.0 and less than 20.1 mg/L. This toxicity data is based on studies conducted on primary raw materials. May be harmful or fatal if swallowed. Can cause central nervous system depression. Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness. May cause irritation to upper respiratory tract as evidenced by sneezing and coughing.

SKIN:

Acute Toxicity (Rabbit): LD50 Greater than 2,000 and less than 20,000 mg/kg. This toxicity data is based on studies conducted on primary raw materials. Prolonged or repeated contact may result in itching, defatting, and dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known.

LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY: None.

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Degrees F, Method): >200 COC

FLAMMABLE LIMITS IN AIR (LEL/UEL, % by Volume): Non-Combustible. Limits Not Applicable.

EXTINGUISHER MEDIA: Foam, carbon dioxide, water spray, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH-approved, self-contained breathing apparatus and full protective clothing. Cool exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce toxic fumes. (Refer to Section 5).

V. REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: High temperatures (Greater than 250F).

INCOMPATIBILITY: Strong Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon, Nitrogen, and Sulfur.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

VI. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: Wear appropriate protective clothing (see Section 7). Recover free material. Absorb remainder with sand or clay and place into drains. The floor may be slippery, avoid falls. Follow all local, state, and federal regulations for disposal. Do not discharge into lakes and streams.

LARGE SPILL: Wear appropriate protective clothing (see Section 7). Eliminate all ignition sources. Restrict access to contaminated area. Stop spill at source. Dike to prevent spreading. Pump liquid to a recovery vessel. Absorb remainder of material with sand or clay and place in a properly labeled waste receptacle. Follow all local, state, and federal regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes, or other bodies of water.

WASTE DISPOSAL METHODS: Follow all applicable federal, state, and local regulations for disposal of a waste material.

VII. SPECIAL PROTECTION EQUIPMENT

VENTILATION REQUIREMENTS: Ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s), if applicable. Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

RESPIRATORY: If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

EYE: Wear chemical splash goggles and/or face shield during mixing and when exposed to mist.

GLOVES: Wear rubber gloves when handling, using, or applying this product. Special precautions should be taken to ensure that material cannot get inside gloves.

OTHER PROTECTIVE EQUIPMENT: None normally required. Use as necessary to prevent exposure. Safety showers and eyewash stations should be provided in all areas in which this product is stored and/or handled. Persons exposed routinely to this material should shower prior to leaving work each day. Work clothing should be changed daily.

VIII. OTHER SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Store in a secure, well-ventilated area protected from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use. Do not store or use in the vicinity of sparks, open flame, or other ignition sources. Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear. Keep out of reach of children.

OTHER PRECAUTIONS: Wash thoroughly after skin contact and before eating, drinking, use of tobacco products, or using restrooms.

IX. ADDITIONAL INFORMATION

VOC content: 132 grams/liter (calculated from the physical properties).

OSHA's Hazard Communication Standard, 29 CFR 1910, 1200 requires that a MSDS be kept on file and distributed to employees and/or customers. If this product is used at other locations, it is your responsibility to promptly distribute this information to that location. Additional copies of the Material Safety Data Sheets are available upon request.

X. SHIPPING INFORMATION

FREIGHT CLASSIFICATION: PRESERVATIVES, WOOD, N.O.I., LIQUID - NMFC 161490

This product is classified for transportation purposes as follows:

	YES	NO
IATA (Air)		X
IMO (Water)		X
DOT (Land)		X

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants to those persons lawfully acquiring title to this product that at the time of the first sale of this product by seller this product conformed to its chemical description and that it was reasonably fit for the purposes stated on the product label when used both in accordance with the Direction for Use appearing on the product label and under normal conditions of use. Buyers and users of this product assume the risk of all loss or damage from use or handling of this product that results from their failure to read and comply with the Directions for Use of this product which appear on the product label. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. Unless expressly prohibited by state law, the liability of seller for any breach of warranty shall not exceed the purchase price of the product as to which a claim is made.

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