

TBS (R) TRIANGLE BIOMEDICAL SCIENCES

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MATERIAL SAFETY DATA SHEET

CATALOG NO. H-PG

SECTION I IDENTIFICATION

 PRODUCT NAME: H-PG, PARAFFIN WAX REPELLENT
 SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC
 CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313,
 AND OF 40 CFR 372.

CHEMICAL NAME:	A MIXTURE OF THE FOLLOWING:	% BY WEIGHT
	HALOGENATED HYDROCARBON	35
	AROMATIC HYDROCARBON	15
	CYCLIC ETHER	1

SECTION II HAZARDOUS INGREDIENTS THRESHOLD LIMIT VALUES

COMPONENTS:	%	OSHA-TWA		OSHA-STEL	
		PPM	MG/M3	PPM	MG/M3
ALIPHATIC HYDROCARBON (ALH)	60	NE	NE	NE	NE
HALOGENATED HYDROCARBON (HAS)	35	350	1900	450	2450
AROMATIC HYDROCARBON (ARH)	15	100	435	150	655
AROMATIC ESTER (ARE)	5	NE	NE	NE	NE
CYCLIC ETHER	1	100 (SKIN)		NE	NE

SECTION III PHYSICAL DATA

 BOILING POINT (F): 146-620 F % VOLATILE BY VOLUME: -40
 VAPOR PRESSURE: 20-100 MM HG EVAPORATION RATE: N/D
 @ DEGREES (ESTIMATED) (BUTYL ACETATE=1)
 VAPOR DENSITY: }4 SPECIFIC GRAVITY: }1.11
 SOLUBILITY IN WATER: INSOLUBLE MELTING POINT: N/A
 APPEARANCE AND ODOR: CLEAR LIQUID, WITH CHARACTERISTIC ODOR

SECTION IV EXPLOSION AND FIRE HAZARD DATA

 FLASH POINT: 190 FLAMMABLE LIMITS
 TEST MODE: CLOSED CUP LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, DRY CHEMICAL POWDER, FOAM.
 SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS MUST WEAR SELF-CONTAINED
 BREATHING APPARATUS AND FULLY PROTECTIVE EQUIPMENT.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: USE WATER SPRAY TO DISPERSE VAPOR.
 DECOMPOSITION UNDER FIRE CONDITIONS MAY GENERATE IRRITATING AND TOXIC GASES,
 INCLUDING CARBON MONOXIDE, HYDROGEN CHLORIDE, ALDEHYDES, PHENOL AND OTHER
 DECOMPOSITION PRODUCTS IN THE CASE OF INCOMPLETE COMBUSTION.

 N/A - NOT APPLICABLE NE - NOT ESTABLISHED N/D - NO DATA

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SECTION V HEALTH HAZARD

 ROUTE(S) OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES
 CARCINOGENICITY: CYE POSITIVE (MOUSE, RAT) OTHER INGREDIENTS ARE NOT.
 HEALTH HAZARDS (ACUTE AND CHRONIC): UNKNOWN. EXPECTED TO BE HARMFUL BY ALL
 ROUTES. EXPECTED TO BE AN IRRITANT.
 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NE

SIGNS AND SYMPTOMS OF EXPOSURE: CHEMICAL, PHYSICAL AND TOXICOLOGICAL
 PROPERTIES ARE NOT ESTABLISHED FOR THIS MIXTURE. WITH THE EXCEPTION OF THE
 ALH ALL INGREDIENTS MAY BE EYE, SKIN AND RESPIRATORY TRACT IRRITANTS. ARH AND
 HAS PRODUCED ANESTHETIC OR NARCOTIC EFFECTS AND AT HIGH VAPOR CONCENTRATIONS
 (1000 PPM) WILL CAUSE DIZZINESS, DRUNKENNESS, HEADACHES, AND MAY HAVE OTHER
 CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH. HAS AT 10,000 PPM CAN CAUSE

CARDIAC ARRHYTHMIAS (IRREGULAR HEARTBEAT). IN POORLY VENTILATED AREAS, VAPOR CAN READILY ACCUMULATE AND CAUSE UNCONSCIOUSNESS AND DEATH.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER, THEN WITH WATER.
EYE CONTACT: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES.
INHALATION: REMOVE TO FRESH AIR; GIVE OXYGEN OR ARTIFICIAL RESPIRATION, AND/OR START RESUSCITATION - IF BREATHING IS IRREGULAR OR STOPPED.
INGESTION: DO NOT INDUCE VOMITING; CALL A PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY.

NOTE TO PHYSICIAN: HAS AND ARH MAY RAPIDLY BE ABSORBED THROUGH LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE.

SECTION VI REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: AVOID OPEN FLAMES & OTHER HIGH TEMPERATURE SOURCES.
INCOMPATIBILITY: STRONG OXIDIZING AGENTS, STRONG ALKALIES, METALLIC ALUMINUM AND ZINC POWDERS, IRON (WILL CAUSE DISCOLORATION).
HAZARDOUS DECOMPOSITION PRODUCTS: NE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII SPILLAGE OR LEAKAGE PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILLAGE OR LEAKAGE OF MATERIALS: WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND GLOVES. MOP UP, WIPE UP OR SOAK UP IMMEDIATELY. VENTILATE THE SITE AFTER CLEANUP IS COMPLETE.

WASTE DISPOSAL METHOD: DISPOSAL OF WASTE MATERIAL MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS OR CALL AN APPROVED/LICENSED DISPOSAL AGENCY.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: OSHA/MSHA APPROVED RESPIRATOR IF NEEDED
VENTILATION: MECHANICAL VENTILATION PROTECTIVE GLOVES: RUBBER
EYE PROTECTION: SAFETY GOGGLES
OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWER AND EYE BATH

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE MATERIAL AT ROOM TEMPERATURE; KEEP STORAGE CONTAINER TIGHTLY CLOSED. AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE. WASH THOROUGHLY AFTER HANDLING.

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