

MATERIAL SAFETY DATA SHEET

OHSPC041

SHERWOOD MEDICAL COMPANY
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314-241-5700

EMERGENCY CONTACT:
CHEMTREC 1-800-424-9300

SUBSTANCE IDENTIFICATION

SUBSTANCE: PARAPLAST, PLUS

TRADE NAMES/SYNONYMS:
8889-502004: OHSPC041

CHEMICAL FAMILY:
PETROLEUM WAX

CERCLA RATINGS (SCALE 0-3): HEALTH=3 FIRE=1 REACTIVITY=0 PERSISTENCE=1
NFPA RATINGS (SCALE 0-4): HEALTH=U FIRE=1 REACTIVITY=0

COMPONENTS AND CONTAMINANTS

COMPONENT: PARAFFIN WAX PERCENT: >98.0
CAS# 8002-74-2

COMPONENT: POLYISOBUTYLENE PERCENT: <1.0
CAS# 9003-27-4

COMPONENT: DIMETHYL SULFOXIDE PERCENT: <1.0
CAS# 67-68-5

EXPOSURE LIMITS:
PARAFFIN WAX FUME:
2 MG/M3 OSHA TWA
2 MG/M3 ACGIH TWA
2 MG/M3 NIOSH RECOMMENDED TWA

PHYSICAL DATA

DESCRIPTION: SOLID.
MELTING POINT: NOT AVAILABLE
VAPOR PRESSURE: NOT AVAILABLE
PH: NOT AVAILABLE
ODOR THRESHOLD: NOT AVAILABLE
SOLVENT SOLUBILITY: NOT AVAILABLE
BOILING POINT: NOT AVAILABLE
SPECIFIC GRAVITY: NOT AVAILABLE
EVAPORATION RATE: NOT AVAILABLE
SOLUBILITY IN WATER: NOT AVAILABLE
VAPOR DENSITY: NOT AVAILABLE

PAGE 1

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.
DUST-AIR MIXTURES MAY IGNITE OR EXPLODE.

FLASH POINT: NOT AVAILABLE UPPER EXPLOSIVE LIMIT: NOT AVAILABLE

LOWER EXPLOSIVE LIMIT: NOT AVAILABLE AUTOIGNITION TEMP.: NOT AVAILABLE

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM
(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM
(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FIREFIGHTING:

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER
SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. DIKE FIRE-CONTROL WATER FOR
LATER DISPOSAL (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE
31).

USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS
VAPORS, KEEP UPWIND.

TOXICITY

PARAFFIN WAX:

IRRITATION DATA: 500 MG/24 HOURS SKIN-RABBIT MILD; 100 MG/24 HOURS EYE-RABBIT
MILD.

TOXICITY DATA: TUMORIGENIC DATA (RTECS).

CARCINOGEN STATUS: NONE.

ACUTE TOXICITY LEVEL: NO DATA AVAILABLE.

TARGET EFFECTS: POISONING MAY AFFECT THE LUNGS.

HEALTH EFFECTS AND FIRST AID

INHALATION:

PARAFFIN WAX:

ACUTE EXPOSURE - FUMES FROM HEATED PARAFFIN WAX MAY CAUSE MILD NOSE AND THROAT
IRRITATION WITH NAUSEA. ANIMALS EXPOSED TO PARAFFIN VAPORS IN A CONCENTRATION
SUFFICIENT TO CAUSE DEATH WITHIN 2 HOURS BECAME HYPERACTIVE AND DEVELOPED
CLONIC SPASMS AND LIMB FLEXOR MUSCLE TETANIC CONTRACTIONS WHICH PERSISTED UNTIL
DEATH.

CHRONIC EXPOSURE - A 5 YEAR OCCUPATIONAL EXPOSURE TO HIGH CONCENTRATIONS OF
AEROSOLIZED PARAFFIN WAX CAUSED DYSPNEA AND HYPOXEMIA, PROGRESSING TO LIPOID
PNEUMONIA CHARACTERIZED PATHOLOGICALLY BY ALVEOLITIS INVOLVING LARGE LIPID-
LADEN MACROPHAGES AND INTERSTITIAL FIBROSIS.

FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING
HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST.
TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

PAGE 2

SKIN CONTACT:

PARAFFIN WAX:

ACUTE EXPOSURE - MAY CAUSE MILD IRRITATION. HEATED LIQUID MAY BURN SKIN.
SENSITIZATION REACTIONS HAVE BEEN REPORTED.

CHRONIC EXPOSURE - DEVELOPMENT OF FOREIGN BODY SKIN GRANULOMAS HAS BEEN
REPORTED FOLLOWING OCCUPATIONAL EXPOSURE. PARAFFIN WAX, POSSIBLY IMPURE,
IN THE OIL REFINING INDUSTRY HAS BEEN REPORTED TO ACT AS A SKIN CANCER PROMOTER
WITH A LATENT PERIOD OF 20 YEARS.

FIRST AID - IF CONTACT IS NOT WITH MOLTEN MATERIAL, REMOVE CONTAMINATED
CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT
AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY
15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY. BURNS FROM CONTACT WITH
MOLTEN MATERIAL SHOULD BE TREATED LIKE THERMAL BURNS. COOL AFFECTED AREA AS
QUICKLY AS POSSIBLE BY DRENCHING OR IMMERSING IN WATER UNTIL MATERIAL
SOLIDIFIES. DO NOT ATTEMPT TO REMOVE SOLIDIFIED MATERIAL. COVER AREA WITH
STERILE, DRY DRESSING. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

PARAFFIN WAX:

ACUTE EXPOSURE - FUMES MAY CAUSE MILD IRRITATION. HEATED WAX MAY BURN EYES.

CHRONIC EXPOSURE - NO DATA AVAILABLE.

FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE,
OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL
REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

PARAFFIN WAX:

ACUTE EXPOSURE - PARAFFIN WAX IS NOT DIGESTED OR ABSORBED.
CHRONIC EXPOSURE - NO DATA AVAILABLE.

FIRST AID - TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION.

REACTIVITY

REACTIVITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
INCOMPATIBILITIES:
PARAFFIN WAX:
OXIDIZERS (STRONG): FIRE AND EXPLOSION HAZARD.

DECOMPOSITION:

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.

POLYMERIZATION:

HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

PAGE 3

STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENT PROTECTION AGENCY.

STORAGE

STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:

SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH SPILLED MATERIAL INTO SEWER. KEEP UNNECESSARY PEOPLE AWAY.

PROTECTIVE EQUIPMENT

VENTILATION:

PROVIDE LOCAL EXHAUST VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS. VENTILATION EQUIPMENT MUST BE EXPLOSION-PROOF.

RESPIRATOR:

THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION.

THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST BE BASED ON THE SPECIFIC OPERATION, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA) .

ANY DUST AND MIST RESPIRATOR.

ANY AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.

ANY POWERED AIR-PURIFYING RESPIRATOR WITH A DUST AND MIST FILTER.

ANY POWERED AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.

ANY TYPE 'C' SUPPLIED-AIR RESPIRATOR OPERATED IN THE PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE OR CONTINUOUS-FLOW MODE.

ANY SELF-CONTAINED BREATHING APPARATUS.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

PAGE 4

CLOTHING:

EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT WHEN THIS SUBSTANCE IS IN THE MOLTEN FORM. OTHERWISE NO PROTECTIVE CLOTHING IS REQUIRED.

GLOVES:

EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE IN MOLTEN FORM.

EYE PROTECTION:

EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES. CONTACT LENSES SHOULD NOT BE WORN. A FACESHIELD IS ALSO RECOMMENDED TO PREVENT CONTACT WITH THIS SUBSTANCE IN MOLTEN FORM.

AUTHORIZED BY: SHERWOOD MEDICAL COMPANY

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PAGE 5 (LAST PAGE)