

EMS CATALOG NO: 19216
EMS PRODUCT: Paraplast, Plus
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

PRODUCT NAME: **Paraplast, Plus**

COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>SYNONYMS</u>	<u>CAS NO.</u>
<u>% WEIGHT</u>		

Paraffin	Paraffin wax	8002-74-2	>98
Polyisobutylene	2-Methylpropene Polymer	9003-27-4	<1
Dimethylsulfoxide	DMSO	67-68-5	<1

HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

This product is supplied as waxy pellets with a garlic odor. It contains primarily paraffin (>98%), which is not expected to present any physical or environmental concerns for emergency personnel. The acute health effects associated with paraffin include skin and eye irritation.

POTENTIAL HEALTH EFFECTS:

The health effects described below represent the effects associated with paraffin.

ACUTE EFFECTS:

INHALATION: Inhalation of paraffin wax fumes (for example, when the wax is heated) may irritate the eyes, nose, and throat.

INGESTION: The product is not expected to present a hazard from ingestion. No data were available on the health effects of paraffin from this route of exposure.

SKIN: May cause mild skin irritation.

EYE: May cause mild eye irritation.

TARGET ORGAN EFFECTS (SUBCHRONIC/CHRONIC):

Chronic exposure may cause dermatitis with irritation and rash.

CARCINOGENIC EFFECTS:

No human or animal data were available on the carcinogenic effects following oral or inhalation exposure. However, when implanted in experimental animals, paraffin caused tumors of the bladder and of the respiratory system.

REPRODUCTIVE/TERATOGENIC EFFECTS:

No human or animal data were available for the product.

CARCINOGENICITY STATUS: Paraffin is not listed as a carcinogen by IARC, NTP, OR OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No data are available on the medical conditions aggravated by exposure to paraffin.

FIRST AID MEASURES

INHALATION:

Remove exposed subject to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, administer oxygen (by trained personnel only). Keep subject warm. Get immediate medical attention.

INGESTION:

If swallowed, Do NOT induce vomiting. If the subject is conscious, give them 1 or 2 glasses of water to dilute the chemical. Call a physician or poison control center immediately.

Never give anything by mouth to an unconscious person. If the victim is unconscious, keep their airway open and lay the victim on their side with the head lower than the body. Get immediate medical attention.

SKIN:

Remove and isolate contaminated clothing. Wash skin with soap and flush thoroughly with plenty of water. Obtain medical attention if irritation develops, or other symptoms occur. Clean contaminated clothing before reuse, or dispose of properly.

EYE:

First check the victim for contact lenses and remove if present. Immediately flush eyes with plenty of water or normal saline for at least 15 minutes while holding eyelids open. If symptoms such as redness or irritation develop or persist, get immediate medical attention. Do not put any medication in the victim's eyes unless instructed by a physician.

FIRE FIGHTING MEASURES

FLASH POINT: 390°F (199°C)

METHOD: Closed Cup

AUTOIGNITION TEMPERATURE: 473°F (245°C) (for 100% paraffin).

FLAMMABILITY LIMITS:

LOWER LIMIT: No data available.

UPPER LIMIT: No data available.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fires of paraffin wax may produce toxic fumes.

COMMON EXTINGUISHING METHODS:

For fires involving this product or its packaging material, use an extinguisher which is appropriate for combustibles and surrounding class(es) of fire.

FIRE FIGHTING PROCEDURES:

Keep unnecessary people away; isolate hazard area and deny entry. Remove containers exposed to fire if possible, otherwise cool them from the side with water spray. Emergency equipment including self-contained breathing apparatus (SCBA) and full fire fighting turnout gear should be worn by fire fighters.

ACCIDENTAL RELEASE MEASURES

Follow facility-specific procedures for spill response. Isolate the spill area. When cleaning spills, wear appropriate personal protective equipment including safety glasses and chemical resistant gloves.

Confine and contain small spills using inert material (e.g., paper towels, spill control pillows). If the wax is hot, let cool before initiating clean-up. To clean-up spills of cooled wax, use nonsparking tools to scrape the wax into containers suitable for disposal.

HANDLING AND STORAGE

Keep containers closed when not in use. Store in a cool, dry, well ventilated area.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

The Occupational Safety and Health Administration (OSHA) and the American Conference of Governmental Industrial Hygienists (ACGIH) have not established exposure limits for this product. However, exposure limits do exist for the hazardous ingredient, which is present at greater than 98%.

	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
Paraffin	2 mg/m ³ (fume)	2 mg/m ³ (fume)

VENTILATION:

No specific controls are needed; good general room ventilation expected to be adequate to control airborne levels. If certain operations generate vapors or fumes (i.e., heating the paraffin), use adequate general or local ventilation to keep airborne concentrations below exposure limits.

PROTECTIVE GLOVES:

Wear impervious gloves to prevent skin contact. Selection of appropriate protective gloves for a particular use depends on the properties of the compound and the specific conditions of use, including the level of dexterity and durability needed, and severity and duration of chemical contact.

EYE PROTECTION:

Either safety glasses with side shields or goggles should be worn when handling this material.

OTHER: Depending on the operation, lab coat, apron or other impermeable clothing may be appropriate.

PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE/ODOR: A colorless or white, translucent, waxy pellet with a garlic odor.

MELTING POINT: 117-149°F (47-65°C), depending on the grade.

BOILING POINT: No data available.

SPECIFIC GRAVITY/DENSITY: 0.80

VAPOR DENSITY: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY:

WATER: Insoluble.

OTHER SOLVENTS: Insoluble in alcohol; soluble in benzene, chloroform, ether, carbon disulfide, and oils; miscible with fats.

DECOMPOSITION TEMPERATURE: No data available.

VISCOSITY: No data available.

pH: No data available.

STABILITY AND REACTIVITY

STABILITY:

Product is stable under normal conditions of use and when stored at room temperature. Hazardous polymerization cannot occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal oxidative decomposition of paraffin wax emits toxic fumes.

CONDITIONS TO AVOID:

Avoid heat, high temperatures, pressure, mechanical shock or other conditions that might result in a hazardous situation.

MATERIALS AND SUBSTANCES TO AVOID (INCOMPATIBILITY):

There are no known materials which are incompatible with this product. Paraffin is incompatible with strong reducing agents and strong acids.

TOXICOLOGICAL INFORMATION

This product is a mixture for which no toxicological data exists.

ACUTE DATA:

INHALATION: No data available.

INGESTION: No data available.

EYES:

Paraffin A 100mg dose applied to the rabbit eye for 24 hours caused mild irritation.

SKIN:

Paraffin A 500mg dose applied to rabbit skin for 24 hours caused mild irritation.

TARGET ORGAN EFFECTS DATA (SUBCHRONIC/CHRONIC) No data available.

CARCINOGENIC EFFECTS DATA:

Paraffin When implanted in rats (120 mg/kg) and mice (480-66 mg/kg), caused tumors of the bladder, lungs, and thorax.

MUTAGENIC EFFECTS DATA: No data available.

REPRODUCTIVE/TERATOGENIC EFFECTS DATA: No data available.

DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable Federal, State and local regulations.

TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

This product is not regulated by DOT.

INTERNATIONAL TRANSPORTATION REGULATIONS:

This product is not regulated under international transportation regulations.

REGULATORY INFORMATION

FEDERAL REGULATIONS:

This product is not regulated by any state government; however

specific regulations exist for its hazardous ingredient.

Paraffin EPA TSCA Chemical Inventory.

STATE REGULATIONS:

This product is not regulated by any state government; however,
specific regulations exist for its hazardous ingredient.

OTHER INFORMATION

HAZARD RATINGS:

NFPA:

Health-1

Flammability-1

Reactivity-0

Special Hazards-None

HMIS:

Health-1

Flammability-1

Reactivity-0