

EMS CATALOG NO: 19214  
EMS PRODUCT: Paraplast Extra  
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

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PRODUCT NAME: Paraplast Extra

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COMPOSITION/INFORMATION ON INGREDIENTS

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| Ingredient Name              | Synonyms                          | % Weight | CAS No.    |
|------------------------------|-----------------------------------|----------|------------|
| Paraffin                     | Paraffin Wax                      | > 90     | 8002-74-2  |
| Polyisobutylene              | 2 Methylpropene<br>Polymer        | < 5      | 9003-27-4  |
| Microcrystalline Wax         | Microwax                          | < 5      | 63231-60-7 |
| Hydrocarbon Resin            | Hydrocarbons,<br>Petroleum Resins | < 5      | 6472-16-1  |
| Butylated Hydroxy<br>Toluene | p-Cresol, 2,6-<br>Di-tert-Butyl   | < 1      | 128-37-0   |

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## HAZARD IDENTIFICATION

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### EMERGENCY OVERVIEW

This product is supplied as odorless waxy pellets. It contains primarily paraffin (>90%), 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:

This product is a mixture for which no health effects data exists. The information provided below represents a comprehensive overview of the effects of the individual ingredients; therefore, the actual hazards of the product may be overestimated.

Since no health effects information was available for polyisobutylene, microcrystalline wax, or hydrocarbon resin, the hazards described below represent the health effects associated with paraffin, the product's primary ingredient.

### 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 skin 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:

This product and its primary ingredient are 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 this product or its primary ingredient.



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.

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**ACCIDENTAL RELEASE MEASURES**

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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 non-sparking tools to scrape the wax into containers suitable for disposal.

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**HANDLING AND STORAGE**

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

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**EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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 primary hazardous ingredient, which is present at greater than 90%.

| INGREDIENT NAME | OSHA PEL/STEL | ACGIH TLV/STEL |
|-----------------|---------------|----------------|
| Paraffin        | 2 mg/3 (fume) | 2 mg/m3 (fume) |

**VENTILATION:**

So 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.

**RESPIRATORY PROTECTION:**

A respirator is not required under normal conditions of use if exposure limits are kept below those listed under EXPOSURE

## GUIDELINES.

### 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 the 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, labcoat, apron or other impermeable clothing may be appropriate.

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## PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: A colorless or white, translucent, solid pellet with no odor.

MELTING POINT: 117-149oF (47-65oC), depending on the grade.

BOILING POINT: No data available.

SPECIFIC GRAVITY/DENSITY: 0.82

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.

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## STABILITY AND REACTIVITY

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### 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.

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TOXICOLOGICAL INFORMATION

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This product is a mixture for which no toxicological data exists. When available, toxicological data for the product's hazardous ingredients are provided below.

ACUTE DATA

INHALATION: No data available.

INGESTION:

Hydrocarbon Resin LD50 - 7 gm/kg (mammal).

EYES:

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

SKIN:

Paraffin A 500 mg 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 (480-660 mg/kg), caused tumors of the bladder, lungs, and thorax.

MUTAGENIC EFFECTS DATA: No data available.

REPRODUCTIVE/TERATOGENIC EFFECTS DATA: No data available.

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ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION:

No data available for the product or its hazardous ingredients.

CHEMICAL FATE INFORMATION:

No data available for the product or its hazardous ingredients.

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DISPOSAL CONSIDERATIONS

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

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TRANSPORT INFORMATION

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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.

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**REGULATORY INFORMATION**

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**FEDERAL REGULATIONS:**

This product is not regulated by the Federal government, however, specific regulations exist for the following ingredients:

|                   |                             |
|-------------------|-----------------------------|
| Paraffin          | EPA TSCA Chemical inventory |
| Hydrocarbon Resin | EPA TSCA Chemical Inventory |

**STATE REGULATIONS:**

This product is not regulated by any state government, however, specific state regulations exist for the following ingredients:

|          |  |
|----------|--|
| Paraffin | Massachusetts Hazardous Substance List, Pennsylvania Hazardous Substance List. |
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**OTHER INFORMATION**

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**HAZARD RATINGS - \***

|                        |                  |
|------------------------|------------------|
| <b>NFPA:</b>           | <b>HMIS:</b>     |
| Health - 1             | Health - 1       |
| Flammability - 1       | Flammability - 1 |
| Reactivity - 0         | Reactivity - 0   |
| Special Hazards - None |                  |

\* A hazard rating has not been developed by NFPA or HMIS for this product. The hazard ratings provided in this MSDS are based on NFPA AND HMIS hazard evaluation criteria, as well as professional judgment.