

EMS CATALOG NO: 19218
EMS PRODUCT: Paraplast Regular
DATE: 06/15/2006
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MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

PRODUCT NAME: Paraplast, Regular

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME:	SYNONYMS	CAS NO.	% WEIGHT
Paraffin	Paraffin Wax	8002-74-2	>99
Polyisobutylene	2-Methylpropene Polymer	9003-27-4	<1

HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

This product is supplied as a waxy odorless pellet. It contains primarily paraffin (>99%), 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: This 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:

Paraffin is not listed as a carcinogen by IARC, NTP, or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No data is 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 subject conscious, give them 1 or 2 glasses of water to dilute the chemical. Call a physician or poison control center immediately.
- 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.
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FIRE FIGHTING MEASURES

FLASH POINT: 410oF (210oC) **METHOD:** Closed Cup

AUTOIGNITION TEMPERATURES:473OF (245oC) (for 100% paraffin)

FLAMMABILITY LIMITS: LOWER LIMIT: No data available.
UPPER LIMIT: No data available.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fires of paraffin 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 (see Section 8). Practice contamination avoidance.

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.

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 99%.

INGREDIENT NAME	OSHA PEL/STEL	ACGIH TLV/STEL
Paraffin	2 mg/m3 (fume)	2 mg/m3 (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.

RESPIRATORY PROTECTION:

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

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: A colorless or white, translucent and odorless waxy pellet.

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. When available, toxicological data for the product's hazardous ingredient is provided below. Refer to the section labeled CARCINOGENICITY STATUS for health effects information.

ACUTE DATA: INHALATION: No data available.

INGESTION: No data available.

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: No data available.

MUTAGENIC EFFECTS DATA: No data available.

REPRODUCTIVE/TERATOGENIC EFFECTS DATA: No data available.

ECOLOGICAL INFORMATION

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.

DISPOSAL CONSIDERATIONS

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

TRANSPORT INFORMATION

US 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 the federal 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.

Paraffin Massachusetts Hazardous Substance List
Pennsylvania Hazardous Substance List

OTHER INFORMATION

HAZARD RATINGS*:

NFPA:	HEALTH - 1	HMIS:	HEALTH - 1
	FLAMMABILITY - 1		FLAMMABILITY -1
	REACTIVITY - 0		REACTIVITY - 0
	SPECIAL HAZARDS - NONE		PERSONAL PROTECTION - See Section called EXPOSURE CONTROLS / PERSONAL PROTECTION

* 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 judgement. This information is intended solely for the use of individuals trained in these hazard ratings systems.