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Hercules Incorporated
Hercules Plaza
Wilmington, DE 19894-0001
(302) 594-5000 (24 hrs)

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: HERCOTAC® 1148 hydrocarbon resin

APPEARANCE: solid or pastille

HMIS RATINGS

COLOR: light yellow

Health hazard: 0 MINIMAL

ODOR: typical hydrocarbon

Flammability hazard: 1 SLIGHT

CASRN: 070969-61-8

Reactivity hazard: 0 MINIMAL

CHEMICAL DESCRIPTION: aromatic-modified aliphatic hydrocarbon resin

SECTION 2: HAZARDOUS COMPONENT INFORMATION

This product is not a health hazard according to the OSHA Hazard Communication Standard 29CFR1910.1200.

If this product is used in a manner that could generate particulates (dust), refer to MSDS Section 8, Recommended Exposure Limits and Personal Protective Equipment.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: *WARNING!*

Static charges generated by emptying package in or near flammable vapors may cause flash fire.

May form flammable dust-air mixtures.

For bags of 1000 lbs. or greater, see MSDS Section 7, Handling and Storage, for additional information.

POTENTIAL HEALTH EFFECTS:

May cause eye irritation by mechanical abrasion.

Prolonged or repeated contact may cause skin irritation.

Inhalation of dust may cause respiratory tract irritation.

Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

SECTION 4: FIRST AID PROCEDURES

EYES: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash with soap and water. Hot molten product: Immediately cool skin burns with water and cold packs for at least 15 minutes. Do NOT put ice directly on the skin. Do NOT attempt to remove solidified resin from the skin as severe tissue damage may result. See Note to Physician.

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INHALATION: Remove to fresh air. Get medical attention if irritation persists.

NOTE TO PHYSICIAN: Material should not be forcibly pulled from the skin. Mineral oil may be used to loosen and soften the material.

SECTION 5: FIRE HAZARDS

FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

EXTINGUISHING MEDIA:

Water spray, dry chemical, foam, carbon dioxide or halon may be used on fires involving this product.

CONDITIONS TO AVOID:

Avoid heat and open flame.

Avoid conditions that generate dust. This product may form flammable dust-air mixtures.

Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

HAZARDOUS COMBUSTION PRODUCTS:

If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide, aldehydes, carboxylic acids, and smoke.

FLASH POINT: 518 ° F 270 ° C

Method: Cleveland Open Cup

SECTION 6: ACCIDENTAL RELEASE MEASURES

If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers, and dispose appropriately.

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

SECTION 7: HANDLING AND STORAGE

GENERAL MEASURES:

Ground all equipment.

Blanket vessel with inert gas when emptying bags where flammable vapors may be present.

Ground operator and pour material slowly into conductive, grounded chute.

For large bags (1000 lbs or greater) a ground cable **MUST** be attached to the bag ground connection.

Control inventory. Rotate stock periodically.

MATERIALS OR CONDITIONS TO AVOID:

Keep away from heat, flame, sparks and other ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**GENERAL HYGIENIC PRACTICES:**

- Avoid breathing dust, vapor or mist.
- Avoid contact with eyes, skin, and clothing.
- Avoid contamination of food, beverages, or smoking materials.
- Wash thoroughly after handling, and before eating, drinking or smoking.

RECOMMENDED EXPOSURE LIMITS:

PARTICULATES (dust): If used under conditions that generate particulates (dust), the OSHA TWA of 5 mg/m³ respirable fraction (15 mg/m³ total), and ACGIH TLV-TWA of 10 mg/m³ should be observed.

PERSONAL PROTECTIVE EQUIPMENT:

- Safety glasses
- Impervious gloves
- Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.
- Personnel exposed to hot molten material should wear protective clothing that provides protection against thermal burns. Required Protective Equipment: a) Longsleeved protective shirt, long pants, and work shoes; b) Hard hat and face shield; c) Long-cuff gloves (Gauntlet type-extending beyond the wrist); d) Lined rainsuit with protective hood or shoulder shroud or e) Full aluminized or thermal suit with hood.

WORK PRACTICES AND ENGINEERING CONTROLS:

- Eyewash fountains and safety showers should be easily accessible.
- Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
- May form flammable dust-air mixtures.
- Keep away from ignition sources.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

- Eliminate ignition sources and prevent build-up of static electrical charges.
- Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.
- Keep area clean. Product will burn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water:	negligible at 20°C	
Specific Gravity:	1.02	
Evaporation Rate:	slower than butyl acetate	
Softening Point:	208 ° F	98 ° C

SECTION 10: STABILITY AND REACTIVITY**GENERAL STABILITY CONSIDERATIONS:**

- Stable under recommended handling and storage conditions.

INCOMPATIBLE MATERIALS:

- Incompatible with: oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

None anticipated under normal or recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**REPORTED HUMAN EFFECTS:**

PRODUCT/SIMILAR PRODUCT - No human toxicity studies have been carried out with this product.

REPORTED ANIMAL EFFECTS:

PRODUCT/SIMILAR PRODUCT - Acute oral LD50 (rats): > 5 g/kg. Slight to mild eye irritant in rabbits; nonirritating to rabbit skin after 24-hour contact. Ninety-day feeding studies revealed effects on rat kidneys at a test level of 5% in the diet. No effects were seen in dogs fed 5% in the diet for 90 days. When material was heated to 180°C (nominal concentration: 5 mg/L), inhalation of vapor caused respiratory irritation, labored breathing, and salivation in rats. Ten repeated exposures at 170°C (nominal concentration: 1.5-1.8 mg/L) caused respiratory irritation and temporary weight loss.

CARCINOGENICITY INFORMATION:

PRODUCT/SIMILAR PRODUCT - Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICITY:**

PRODUCT/SIMILAR PRODUCT - No ecological studies have been carried out on this product.

SECTION 13: DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD:**

Incineration in accordance with applicable regulations is the recommended disposal method. Landfilling in a permitted solid or hazardous waste facility, meeting technical regulatory requirements, is a suitable alternative.

SECTION 14: TRANSPORTATION INFORMATION

For information regarding transportation of this product, please contact Hercules Transportation at (302) 594-7356.

SECTION 15: REGULATORY INFORMATION**CHEMICAL INVENTORIES:**

U. S. TSCA Status: Included on TSCA Inventory.

SARA TITLE III**Sections 302 and 304:**

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

Sections 311 and 312:

NHH: Not a health hazard
HC-3: Fire hazard

Section 313:

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

CERCLA

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40CFR302.4.

RCRA

This product is not a hazardous waste as listed in 40CFR261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR261, Subpart C.

SECTION 16: OTHER INFORMATION**LIST OF ACRONYMS:**

ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI: American National Standards Institute
C: Ceiling
CASRN: Chemical Abstracts Service Registry Number
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
DSL: Domestic Substances List (Canadian)
EINECS: European Inventory of Existing Commercial Chemical Substances
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
MITI: Ministry of International Trade and Industry (Japanese)
N/A: Not Applicable
NDSL: Non-domestic Substances List (Canadian)
NOR: Not Otherwise Regulated
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: OSHA Permissible Exposure Limit
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
SARA: Superfund Amendment Reauthorization Act
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Values (registered trademark of ACGIH)
TPQ: Threshold Planning Quantity
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.