

Hercules MSDS - HERCULES® PE TETRASTEARATE

HERCULES**MATERIAL SAFETY DATA SHEET**

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MSDS NO.: 862 3170 0900 VER: 05
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SUPERSEDES: 862 3170 0900 VER: 04

1 PRODUCT IDENTIFICATION

PRODUCT NAME:

HERCULES® PE TETRASTEARATE

CHEMICAL DESCRIPTION pentaerythritol ester of stearic acid
CAS NUMBER 115-83-3

2 COMPOSITION / INFORMATION ON INGREDIENTS

This product is not classified as hazardous under OSHA regulations, however, this MSDS contains valuable information important to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users/handlers of this product.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

No hazards anticipated under conditions of foreseeable use or exposure.

4 FIRST AID MEASURES

SKIN

Good industrial hygiene practice dictates thoroughly washing skin with soap and water should accidental contact occur.

EYE

Good industrial hygiene practice dictates thoroughly flushing eyes with water should accidental contact occur.

INHALATION

No adverse health effects are expected from exposure to this product.

INGESTION

Not an ingestion hazard under anticipated conditions of use

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, dry chemical, foam, carbon dioxide or clean

extinguishing agents may be used on fires involving this product.

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.

CONDITIONS TO AVOID

None known.

HAZARDOUS COMBUSTION PRODUCTS

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

FLASH POINT

> 558 ° F

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.

7 HANDLING & STORAGE

GENERAL MEASURES

Store in a cool, dry place: approximately 20° C (68° F)
Keep container closed when not in use.
Check old product for deterioration regularly.
Control inventory.
Rotate stock periodically.

MATERIALS OR CONDITIONS TO AVOID

Avoid scoring product near incompatible materials. See MSDS Section 10.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

WORK PRACTICES & ENGINEERING CONTROLS

For good industrial hygiene practice: Eyewash fountains and safety showers should be easily accessible.
For good industrial hygiene practice: Provide adequate ventilation.

GENERAL HYGIENIC PRACTICES

For good industrial hygiene practice: Avoid contact with eyes, skin, and clothing.
For good industrial hygiene practice: Wash thoroughly after handling, and before eating, drinking or smoking.

RECOMMENDED EXPOSURE LIMITS

This product is not considered to present an inhalation health hazard under reasonably anticipated conditions of use.

PERSONAL PROTECTIVE EQUIPMENT

For good industrial hygiene practice:
Safety glasses
Impervious gloves
Appropriate protective clothing

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE

For good industrial hygiene practice: Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

9 PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE:	waxy solid
COLOR	ivory
ODOR:	odorless
Specific Gravity	0.97
Percent Volatile	negligible at 68° F
Evaporation Rate	slower than butyl acetate
Vapor Density	heavier than air
Solubility in Water	insoluble
Softening Point	138 ° F

10 STABILITY & REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS
None known.

HAZARDOUS POLYMERIZATION
Not anticipated under normal or recommended handling and storage conditions.

GENERAL STABILITY CONSIDERATIONS
Stable under recommended handling and storage conditions

INCOMPATIBLE MATERIALS
Incompatible with: oxidizing agents and alkalies

11 TOXICOLOGICAL INFORMATION

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

REPORTED HUMAN EFFECTS
PRODUCT/SIMILAR PRODUCT - No human toxicity studies have been carried out with this product. Not expected to be a health hazard based on testing of similar products and status under food additive regulations.

REPORTED ANIMAL EFFECTS
PRODUCT/SIMILAR PRODUCT - Not toxic by OSHA/ANSI criteria based on acute animal peroral testing of this or a similar product (LD50 >500 mg/kg). Feeding studies of this or similar products indicate no evidence of risk at anticipated workplace exposure levels.

12 ECOLOGICAL INFORMATION

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

13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Landfilling in a permitted solid or hazardous waste facility is recommended. Handling, transportation, and disposal of material should be conducted in a manner to prevent a nuisance dust hazard. Fully containerize the material before handling, and protect from exposure to the outdoors. Ensure there are no restrictions on disposing of bulk or semi-bulk quantities of

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waste material. Disposal should be in accordance with all Federal, State and local regulations.

14 TRANSPORT INFORMATION

GENERAL

This product is not subject to DOT, ICAO, IMDG or ADR regulations.

For specific information regarding transportation of this product, please contact the Hercules Transportation Department at (302) 594-7356 or FAX at (302) 594-7256.

15 REGULATORY INFORMATION

CHEMICAL INVENTORIES

U.S. TSCA: The components of this product are included on the TSCA Inventory.

SARA TITLE III - SECTIONS 302/304

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

SARA TITLE III - SECTION 311 AND 312

NHH: Not a health hazard
NPH: Not a physical hazard

SARA TITLE III - 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.

16 OTHER INFORMATION

HMIS RATINGS:

Health	0	Minimal Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard

LIST OF ACRONYMS

ACGIH: American Conferences of Governmental Industrial Hygienists
AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level
CASRN: Chemical Abstracts Service Registry Number
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
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 Substance Control Act

TWA: Time Weighted Average

DISCLAIMER

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.

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