

***HYSTRENE® 5016 NF***

Date Issued:	02/01/2013
MSDS No.:	1001001

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>PRODUCT DESCRIPTION</b>	Hystrene® 5016 NF Food Grade; Hystrene® 5016 NF Food Grade Vegetable; Hystrene® 5016 NF Food Grade Vegetable Kosher; Hystrene® 5016 NF Food Grade Vegetable Palm; Hystrene® 5016 NF EXT –"For External Use Only Hystrene® 5016 NF Vegetable EXT –"For External Use Only
<b>PHYSICAL FORMS:</b>	Flake, Molten, Powder
<b>CHEMICAL NAME:</b>	Stearic acid
<b>GENERAL USE:</b>	All-purpose lubricant and release agent.
<b>MANUFACTURE:</b>	PMC Biogenix, Inc. 1231 Pope Street Memphis, TN 38108 USA
<b>SERVICE CONTACT NUMBER:</b>	800-641-2152
<b>EMERGENCY CONTACT:</b>	Environmental Health and Safety Department
<b>EMERGENCY PHONE:</b>	901-320-5820
<b>24 HR. EMERGENCY TELEPHONE NUMBER:</b>	CHEMTREC (24 hours) 800-424-9300

**2. HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Molten product may cause thermal burns. Usual hazards associated with organic dusts. The possibility of explosions exists under dusty conditions. Avoid dusting when handling and avoid all possible sources of ignition (Spark and Flame). Normal precautions common to safe manufacturing practice should be followed in handling and storage.

**CLASSIFICATION OF SUBSTANCE OR MIXTURE**

Classification according to OSHA Hazard Communication Standard 29 CFR 1910.1200 – Not Classified as Hazardous

**POTENTIAL HEALTH EFFECTS**

**Primary Routes of Entry:** Eye contact  
Skin Contact

- Eye:** May cause eye irritation; Molten product may cause thermal burns
- Skin:** May cause mild skin irritation; Molten product may cause thermal burns
- Ingestion:** Large oral doses may cause irritation to the gastrointestinal tract.
- Inhalation:** Excessive inhalation of dust or heated vapors may cause irritation to the respiratory tract.
- Chronic:** No information available

**GHS Label elements, including precautionary statements**

<b>Pictogram</b>	None
<b>Signal word</b>	None
<b>Hazard statement(s)</b>	None

**Precautionary statement(s)**

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<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapors/spray
<b>P264</b>	Wash skin thoroughly after handling
<b>P280</b>	Wear protective gloves/eye protection/face protection
<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water
<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT(S)	CAS	EINEC No.	% BY WEIGHT
Octadecanoic acid	57-11-4	200-131-4	100

No Hazardous Ingredients

**4. FIRST AID MEASURES**

<b>Inhalation</b>	Remove to fresh air
<b>Skin Contact</b>	Wash skin thoroughly with soap and water for at least 15 minutes. If redness or irritation occurs, seek medical attention. <b>WHEN MOLTEN ONLY</b> (molten product can cause thermal burns) - Cool with water or ice
<b>Eye Contact</b>	Immediately flush eyes with water and continue washing for at least 15 minutes. If redness or irritation occurs, seek medical attention. <b>WHEN MOLTEN ONLY</b> (molten product can cause thermal burns).
<b>Indigestion</b>	No emergency care anticipated.
<b>Notes to Physician</b>	None

**5. FIRE-FIGHTING MEASURES**

<b>Flash point:</b>	190 °C (374 °F)
<b>Extinguishing Media</b>	Dry chemical, water spray, CO2, foam
<b>Fire Fighting Procedure:</b>	Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
<b>Special protective equipment for fire fighting:</b>	Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.
<b>Hazardous combustion products:</b>	Carbon monoxide; Carbon dioxide

**6. ACCIDENTAL RELEASE MEASURES**

<b>Environmental Precautions</b>	This product is insoluble in water and will float on the surface.
<b>Methods for cleaning up</b>	Avoid dust formation. Avoid dispersion of dust. Sweep up and collect in a suitable container for disposal. <b>When Molten</b> - Transfer liquids and solid diking material to suitable containers for recovery or disposal. Allow remaining liquid to solidify, then shovel into containers. Observe government regulations.

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**Reference to other sections**      See *Section 7* for information on safe handling.  
    See *Section 8* for information on personal protection equipment.  
    See *section 13* for disposal information.

**7. HANDLING AND STORAGE**

**Handling**      Avoid breathing dust. Avoid dispersion of dust to reduce fire and explosion potential. **WHEN MOLTEN ONLY** Exercise suitable precautions to avoid thermal burns., Product is normally maintained in a heated, liquid form

**Storage**      Normal precautions common to good safety practice should be followed in storage. Repair all broken containers immediately.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limit values**

Component	Country	Type	Value	Remark
Octadecanoic acid	USA	PEL, OSHA	5 mg/m3	Respirable dust
		PEL, OSHA	15 mg/m3	Total dust
		TWA, ACGIH	10 mg/m3	Total dust for nuisance particulates

No other exposure limits have been established. Consult local authorities for acceptable provincial values

<b>Engineering Measures</b>	Use local ventilation or engineering controls as needed to maintain personnel exposure below TLV
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<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practices.
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**Personal Protective Equipment**

**Respiratory Protection**      Do not breathe hot vapors. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area. Use NIOSH/MSMA certified dust mask and/or respirator where appropriate

**Hand Protection**              Neoprene

**Eye Protection**                Monogoggles.

**Skin Protection**                Rubber or plastic apron

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State**                    Solid

**Color**                                Off-white

**Odor**                                Slightly fatty

**Odor threshold**                Not available

**Boiling Point**                    >315 °C (600 °F)

**Melting Point**                  53 °C (127 °F) - 56 °C (133 °F)

**Solidification**                 Not available

**pH**                                    Not available

**Evaporation Rate**              Not applicable

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<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific gravity (H2O=1)</b>	0.880 g/cm <sup>3</sup> at 25°C
<b>Solubility in water</b>	Insoluble
<b>Solubility in organic solvents</b>	No data available
<b>Partitioning coefficient</b>	Not available
<b>Autoignition temperature</b>	Not available
<b>Upper explosion limits</b>	Not available
<b>Lower explosion limits</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Flash point</b>	190 °C (374 °F) Method: Cleveland open cup ASTM D 92
<b>Percent volatiles</b>	0%(m)

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	None Known
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Carbon monoxide; Carbon dioxide
<b>Hazardous polymerization</b>	Will not occur

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Not classified. Conclusive but not sufficient for classification.

**ORAL LD<sub>50</sub>** No Data Available

**INHALATION LC<sub>50</sub>** No Data Available

**DERMAL LD<sub>50</sub>** No Data Available

**CARCINOGENICITY**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**EYES:** May cause slight irritation. Molten product may cause thermal burns.

**SKIN CONTACT:** May cause slight irritation. WHEN MOLTEN ONLY (molten product can cause thermal burns).

**SKIN ABSORPTION:** Low acute toxicity

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**INHALATION :** Vapor or mist from heated material or dust may cause irritation of the respiratory tract.

**SWALLOWING:** Low acute toxicity. Molten product may cause thermal burns.

**REPRODUCTIVE TOXICITY** No data available

**TERATOGENICITY** No data available

**REPRODUCTIVE EFFECTS:** No data available

**MUTAGENICITY:** No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)** No Data Available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)** No Data Available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information** No data available

**Bioaccumulative Potential** Bioaccumulative unlikely.

**Comments** Not expected to be acutely toxic to aquatic organisms.

**13. DISPOSAL CONSIDERATION**

**General** It is our opinion this product is not a RCRA hazardous waste. It is the generator's responsibility to make their own determination as to the RCRA status of waste they generate. We have not performed a Toxicity Characteristic Leachate Procedure (TCLP) on this product., Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

**Non-cleaned packages** Dispose of washing solution in same way as product. Subject completely emptied paper bags to paper recycling

**14. TRANSPORTATION INFORMATION**

**DOT** This product is not regulated by DOT

**Canada Transportation of Dangerous Goods** This product is not regulated by TDG

**IMDG Classification** Not classified as dangerous under IMDG regulations

**ICAO Classification** Not classified as dangerous under ICAO regulations

**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA Title III (Superfund Amendments and Reauthorization Act)**

**313 Reportable Ingredients:** None

**302/304 Emergency Planning**

**Emergency Plan:** None

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**CERCLA (Comprehensive Response, Compensation and Liability Act)**

CERCLA RQ: None

**EPA Hazard Categories**

SARA 311/312: None

**TSCA (Toxic Substance Control Act)**

TSCA Status: This product is on the TSCA inventory

**New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)**

Chemical name	C.A.S. Number	New Jersey TS Number
Octadecanoic acid	57-11-4	

**California Proposition 65** Does not contain any contaminants or byproducts known by the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 Safe Drinking Water and Toxic Enforcement Act.

**CANADA**

**WHMIS CLASSIFICATION:** Not a controlled product

**CPR Compliance** This Product has been classified with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR

**Domestic Substance List (Inventory):** This product is on the DSL

**Chemical Inventory**

- Canada:** This product is on the DSL.
- Europe:** This product is on the EINECS inventory.
- United States:** This product is on the TSCA inventory.
- Australia:** This product is on the AICS inventory.
- China:** This product is on the IECSC Inventory.
- Japan:** This product is on the ENCS inventory.
- Korea:** This product is listed on the Existing Chemicals List (ECL).
- Taiwan** This product is listed on the National Existing Chemical Substance Inventory (NECSI)
- Philippines:** This product is on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

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**16. OTHER INFORMATION**

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**Revision** 3  
**Supersedes Date** 04/01/2011  
**Approved By** Safety Health & Environmental Department  
**Prepared By:** Quality Assurance, Product Safety

HMIS Rating

<b>HEALTH:</b>	1	<b>FLAMMABILITY:</b>	1	<b>PHYSICAL HAZARD:</b>	0	<b>PERSONAL PROTECTION:</b>	
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**Manufacturer Disclaimer:** The opinions expressed herein are those of qualified experts within PMC Biogenix Inc.. We believe that the information contained herein is current as of the date of this safety data sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of PMC Biogenix Inc., it is the user's obligation to determine the conditions of safe use of the products.