



MATERIAL SAFETY DATA SHEET

INDUSTRENE® R FLAKE

Version:	1
Date Of Issue:	02/29/2008
Date Printed:	03/24/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : INDUSTRENE® R FLAKE

Chemical name: Stearic acid

Use of substance/preparation: Lubricant

Supplier: PMC Biogenix Inc.
1231 Pope Street
Memphis, TN 38108 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300

Environmental, Health and Safety Department: 901-320-5883

Customer Service: 800-641-2152

Prepared by Product Safety Department Date of Issue: 02/29/2008

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
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Octadecanoic acid CAS# 57-11-4	
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4. FIRST AID MEASURES

Swallowing

No emergency care anticipated.

Inhalation

Remove to fresh air.

Skin contact

Wash skin with soap and water.

Eye contact

Flush eyes thoroughly with water for several minutes. Obtain medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

Flash point: 372 °F 189 °C

Autoignition temperature: No data available.

Hazardous combustion products

Carbon monoxide.
Carbon dioxide.

Special fire fighting procedures

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media

Suitable: Extinguish with:
- dry chemical
- water spray
- CO2
- foam

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

This product is insoluble in water and will float on the surface.

Methods for cleaning up

Sweep up and collect in a suitable container for disposal.
Observe government regulations.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Avoid breathing dust., Avoid dispersion of dust to reduce fire and explosion potential.

STORAGE

Storage requirements

Store at ambient temperature., Keep drums tightly closed to prevent contamination.



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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

PERSONAL PROTECTION

Respiratory protection

Use NIOSH/MSMA certified dust mask and/or respirator where appropriate.

Hand protection / protective gloves

Neoprene

Eye protection

Safety glasses.

Skin protection

Rubber or plastic apron

ENGINEERING CONTROLS

Ventilation

Adequate ventilation to keep dust level below TLV.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Solid
Color	Off-white
Odor	Slight fatty
Odor threshold	No data available.

OTHER PROPERTIES

Boiling point	> 315 °C
Melting point	52 - 62 °C
pH	Not available
Density	~ 0.88 g/cm3 at 25 °C
Vapor pressure	
Solubility in water	Insoluble
Partitioning coefficient	Not available
Flash point	372 °F 189 °C Method: Cleveland open cup ASTM D 92
Autoignition temperature	No data available.
Percent volatiles	0 %(m)



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10. STABILITY AND REACTIVITY

Stability: Stable.

Stability - Conditions to avoid:
Stable under normal conditions.

Incompatible materials:
Strong oxidizing agents.

Hazardous combustion products:
Carbon monoxide.
Carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Acute effects
Low acute toxicity.

SKIN ABSORPTION

Acute effects
Low acute toxicity.

INHALATION

Acute effects
Dust may cause irritation of the respiratory tract.

SKIN CONTACT

Acute effects
May cause slight irritation.

Test results

Skin irritation: Species: Rabbit
Result: Non irritating.
Classification: Not irritant
Remark: 0,5 ml; occlusive

EYE CONTACT

Acute effects
May cause slight irritation.

12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

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



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Procedure (TCLP) on this product., Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

Non-cleaned packages
Subject completely emptied paper bags to paper recycling.

14. TRANSPORT INFORMATION

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RO's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RO's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

None.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

None.

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

Chemical name
Octadecanoic acid

CAS#
57-11-4

New Jersey TS Number

EPA Hazard Categories (SARA 311, 312):

None

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).
Philippines: The ingredients of this product are on the PICCS.



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16. OTHER INFORMATION

HMIS RATING

Health: 0	Flammability: 1	Reactivity: 0	PPI:
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STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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