

# SAFETY DATA SHEET

Issue Date 13-Jun-2014 Revision Date 22-Sep-2016 Version 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Industrene® R

Other means of identification

Biogenix Product Code 10388; 10393; 40242; 10394; 10395; 10399; 10403; 11739; 10401; 11275; 11242; 10407

SDS Code INDR

Recommended use of the chemical and restrictions on use
Recommended Use Chemical intermediate.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressPMC Biogenix, Inc.PMC Biogenix, Inc.1231 Pope Street1231 Pope StreetMemphis, TN 38108Memphis, TN 38108

USA USA

Emergency telephone number

Company Phone Number PMC Biogenix Customer Service: 1-800-641-2152

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

Emergency Telephone Biogenix Environmental Health and Safety Department +1-901-320-5820

# 2. HAZARDS IDENTIFICATION

### Classification

**OSHA Regulatory Status** 

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

#### Label elements

#### **Emergency Overview**

# Warning

May form combustible dust concentrations in air

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance pellets, flakes, powder, Physical state Solid Odor Slight

Molten

# Hazards not otherwise classified (HNOC)

Dust can form an explosive mixture with air

Other Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Octadecanoic acid	57-11-4	100	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

Molten product can cause thermal burns. Rinse immediately with plenty of water, also Eye contact

under the eyelids, for at least 15 minutes. (Call a physician if irritation persists).

**Skin Contact** Molten product can cause thermal burns. In case of burns, immediately cool affected skin

for as long as possible with cold water. Wash off immediately with plenty of water for at

least 15 minutes. (Get medical attention immediately if symptoms occur).

Inhalation Remove to fresh air. (Get medical attention immediately if symptoms occur).

Molten product can cause thermal burns. Clean mouth with water and drink afterwards Ingestion

plenty of water. (Get medical attention immediately if symptoms occur).

#### Most important symptoms and effects, both acute and delayed

No information available. **Symptoms** 

# Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Avoid creating dust. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide.

#### **Explosion data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition

source is a potential dust explosion hazard.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas, Avoid creating dust, Dust can Personal precautions

form an explosive mixture with air.

**Environmental precautions** 

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**Environmental precautions** 

See section 12 for additional ecological information. The product is insoluble and floats on water. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on

the ground or into any body of water. Prevent product from entering drains.

# Methods and material for containment and cleaning up

Use personal protective equipment as required. Take up mechanically, placing in Methods for cleaning up

appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Pick up and transfer to properly labeled containers. Where possible allow molten

material to solidify naturally.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Avoid generation of dust. Handle in accordance with good industrial hygiene and safety

practice.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage Conditions** 

Incompatible materials Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Exposure limits are listed below, if they exist.

Chen	nical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Octad	ecanoic acid	-	=	-	TWA: 10 mg/m <sup>3</sup>
	57-11-4				
	Dust	TWA: 10 mg/m <sup>3</sup> Inhl	TWA: 5 mg/m <sup>3</sup> Resp	-	-
	DUST	TWA: 3 mg/m <sup>3</sup> Resp	TWA: 15 mg/m³ Total		
			29CFR1910.1000		

#### Appropriate engineering controls

**Engineering Controls** Showers, Eyewash stations, Ventilation systems.

# Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin and body protection Heat resistant gloves are recommended when handling molten materials.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Wash

face, hands and any exposed skin thoroughly after handling. Use personal protective

equipment as required.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

**Appearance** pellets, flakes, powder, Molten Odor

Color white Odor threshold No information available

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Cleveland Open Cup

**Property** Values Remarks • Method

pН No information available

52 °C / 126 °F Melting point / freezing point Boiling point / boiling range > 315 °C / >600 °F 189 °C / 372 °F Flash point

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available **Specific Gravity** 0.880 g/cm3 @ 25°C Water solubility Insoluble in water Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available

No information available **Decomposition temperature** Kinematic viscosity No information available Dynamic viscosity No information available

Dust can form an explosive mixture with air **Explosive properties** 

**Oxidizing properties** No information available

Other Information

Softening point No information available Molecular weight No information available

**VOC Content (%)** O

**Density** No information available No information available **Bulk density** 

Minimum ignition energy (MIE) 25 mJ

# 10. STABILITY AND REACTIVITY

#### Reactivity

No known effects under normal use conditions.

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.

### Incompatible materials

Strong oxidizing agents.

# **Hazardous Decomposition Products**

Carbon dioxide (CO2), Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

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Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system. Vapors

may be irritating to eyes, nose, throat, and lungs.

Eye contact Dust contact with the eyes can lead to mechanical irritation. Molten product can cause

thermal burns.

**Skin Contact** Molten product can cause thermal burns.

No data available. Ingestion

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Octadecanoic acid	> 4600 mg/kg (Rat)	>5000 mg/kg (Rabbit)	

# Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available. Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity No information available. STOT - single exposure No information available STOT - repeated exposure No information available. **Aspiration hazard** No information available.

# Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Octadecanoic acid		12000 ug/L >4 d		
57-11-4		Oncorhynchus kisutch		

# Persistence and degradability

No information available.

# Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Octadecanoic acid	8.23
57-11-4	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and **Disposal of wastes** 

regulations.

Contaminated packaging Do not reuse container. Disposal should be in accordance with applicable regional, national

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and local laws and regulations.

# 14. TRANSPORT INFORMATION

Not regulated DOT

Not regulated TDG

Not regulated. IATA

Not regulated **IMDG** 

# 15. REGULATORY INFORMATION

# All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

### **International Inventories**

Complies **TSCA** Complies **AICS** Complies **DSL/NDSL** Complies **ENCS KECL** Complies Complies **PICCS IECSC** Complies Complies **NZIoC** Complies **TCSI** 

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

# **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

# SARA 311/312 Hazard Categories

Acute health hazard No **Chronic Health Hazard** No Fire hazard Yes Sudden release of pressure hazard No **Reactive Hazard** No

### **CWA (Clean Water Act)**

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

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#### **CERCLA**

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

# 16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 1 Instability 0 **Physical and Chemical** 

Properties -

HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection X

**Prepared By** PMC Group 13-Jun-2014 **Issue Date Revision Date** 22-Sep-2016

**Revision Note** 

No information available

This material safety data sheet complies with the requirements of 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**