



MATERIAL SAFETY DATA SHEET

Revision: 1.0

07/26/2003

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Product name: Niox® Stannous Octoate D-19

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Niox® Stannous Octoate D-19

Chemical name: Stannous octoate

Supplier: GE Silicones
3500 South State Route 2
Friendly, WV 26146, USA

2. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT | CAS# | CONCENTRATION |
|----------------------|----------|---------------|
| Stannous Octoate | 301-10-0 | 97.0 % |
| 2-Ethylhexanoic acid | 149-57-5 | 3.0 % |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

MAY BE IRRITATING TO RESPIRATORY SYSTEM, SKIN AND EYES.

MAY CAUSE ALLERGIC SKIN REACTION.

4. FIRST AID MEASURES

Swallowing

If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention.

Skin

Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if discomfort persists. Wash clothing before re-use. Discard contaminated leather articles such as shoes and belt.

Inhalation

Remove to fresh air. Obtain medical attention for any breathing difficulties.

Eye contact

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

Notes to physician

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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Product name: Niaux® Stannous Octoate D-19**5. FIRE-FIGHTING MEASURES****Flash point:** > 142 °C (287 °F)**Autoignition temperature:** Not available**Special fire fighting procedures**

None.

Special protective equipment for firefighters

Self-contained breathing apparatus. Body covering protective clothing.

Extinguishing media

Suitable: Large fires:
- alcohol-type foam or universal-type foams
Small fires:
- CO2
- dry chemical

Unusual fire and explosion hazards

None known.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear suitable protective equipment.

Environmental precautions

May be harmful to aquatic life. Avoid discharge to sewers or natural waters.

Methods for cleaning up

Cover with absorbent or contain.
Collect for disposal.
Observe government regulations.

7. HANDLING AND STORAGE**HANDLING****Handling precautions**

Avoid contact with eyes, skin and clothing. Do not swallow. Avoid prolonged or repeated contact with skin. Avoid breathing vapor. Use with adequate ventilation. Wash thoroughly after handling.

STORAGE**Storage requirements**

Keep container closed.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

Self-contained breathing apparatus in high vapor concentrations. If personnel exposure exceeds exposure limits, select adequate respiratory equipment.

Hand protection / protective gloves

4H

Butyl

Neoprene

Nitrile (NBR)

PVC-coated

Eye protection

Monogoggles

Other protective equipment

Eye bath

Safety shower

Other protective equipment

Chemical protective clothing.

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory.

If personnel exposure exceeds exposure limits, apply local exhaust ventilation.

Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

EXPOSURE LIMITS

| <u>Component</u> | <u>Type</u> | <u>Value</u> | <u>Remark</u> |
|------------------|---------------|-----------------------|---------------|
| Stannous Octoate | TWA, ACGIH | 2.0 mg/m ³ | |
| | PEL-TWA, OSHA | 2.0 mg/m ³ | |

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

| | |
|----------------|---------------------------|
| Physical state | Liquid |
| Color | Colorless to light yellow |
| Odor | Characteristic |

OTHER PROPERTIES

| | |
|---------------|----------------|
| Boiling point | Not determined |
| Melting point | Not determined |



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| | |
|--|--|
| pH | Not determined |
| Specific gravity (H₂O=1) | 1.25 at 25 °C |
| Vapor pressure | Not determined |
| Vapor density (air=1) | Not determined |
| Solubility in water | Insoluble |
| Evaporation rate (Butyl Acetate=1) | Not determined |
| Flash point | > 142 °C (287 °F) Method: Pensky-Martens closed cup ASTM D 93 |
| Autoignition temperature | Not available |

10. STABILITY AND REACTIVITY

Stability: Stable.

Stability - Conditions to avoid
 None known.

Incompatible materials
 Oxidizing agents.

Hazardous combustion products
 Burning can produce the following combustion products:
 Oxides of carbon.
 Oxides of tin.
 Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.
 Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Hazardous polymerization: Will not occur.

Hazardous polymerization - Conditions to avoid
 None known.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Acute effects
 Slightly toxic.

Effects of repeated overexposure
 May cause:
 - liver damage



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SKIN ABSORPTION

Acute effects

Slightly toxic.

INHALATION

Acute effects

Mist or spray causes the following effects:

- irritation of the respiratory tract

SKIN CONTACT

Acute effects

Causes moderate irritation.

Effects of repeated overexposure

Skin contact may cause:

- allergic skin reaction

EYE CONTACT

Acute effects

Causes moderate irritation.

Other effects of overexposure

None currently known.

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH

The following information is applicable to a component of this material.

2-Ethylhexanoic acid

Causes birth defects in laboratory animals.

12. ECOLOGICAL INFORMATION

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

13. DISPOSAL CONSIDERATIONS

General: Incinerate in a furnace where permitted under national and local regulations.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.



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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 (RQ'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 (RQ'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 ****

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

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

| Chemical name | CAS# | Max weight % |
|------------------|----------|--------------|
| Stannous Octoate | 301-10-0 | 100.00 |

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

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 | CAS# | New Jersey TS Number |
|----------------------|----------|----------------------|
| Stannous Octoate | 301-10-0 | |
| 2-Ethylhexanoic acid | 149-57-5 | |

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard
 Delayed Health Hazard

California Proposition 65

This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

California SCAQMD Rule 443.1 VOC's

Volatile Organic Components (VOC's) = Substances with vapor pressure of => 0.5 mmHg at 104°C (219.2°F).
 ****NOT DETERMINED****

CHEMICAL INVENTORY

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The components of this product are listed on the TSCA inventory or are exempt.



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16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS

Please consult the product and/or application information bulletins for this product.

HMIS RATING

| | | | |
|-----------|-----------------|---------------|--------|
| Health: 2 | Flammability: 1 | Reactivity: 0 | PPI: X |
|-----------|-----------------|---------------|--------|

LEGEND

| | |
|----------|---|
| STP | Standard temperature and pressure |
| W/W | Weight/Weight |
| 0 (HMIS) | Minimal hazard |
| 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 |

The opinions expressed herein are those of qualified experts within GE Silicones. 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 GE Silicones, it is the user's obligation to determine the conditions of safe use of the products.