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# SAFETY DATA SHEET

**In accordance with OSHA 29 CFR 1910.1200**

**ISR 70-03A BLACK**
**Revision Number** 2

**Revision date** 22-Apr-2025
**Supersedes date** 01-Jul-2021

## 1. Identification

### 1.1. Product identifier

**Product Name** ISR 70-03A BLACK

**Other means of identification**
**Other information** Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Sealant
**Restrictions on use** No information available

### 1.3. Details of the supplier of the safety data sheet

**Responsible Party**
Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1(800) 726-7845 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)

**E-mail** msds@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** CHEMTREC (Chemical Transportation Emergency Center)
Chemtrec: 1-800-424-9300 (US) , 1-703-527-3887 (Outside U.S.)
**Rocky Mountain Poison Center:** 1-866-767-5089

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

| | |
|---|---|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |
| Reproductive toxicity | Category 1B |

**Hazards not otherwise classified (HNOC)**
Not applicable

### 2.2. Label elements

**EMERGENCY OVERVIEW**

**Danger**

**Hazard statements**
Causes serious eye irritation
May cause an allergic skin reaction
May damage fertility or the unborn child

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**Appearance** Paste

**Physical state** Solid

**Odor** No information available

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

**Precautionary Statements - Storage**
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

### 2.3. Other Information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

| Chemical name | CAS No. | Weight-% |
|---|---|---|
| Carbonic acid, calcium salt (1:1) | 471-34-1 | 30 - 60 |
| Trimethoxyvinylsilane | 2768-02-7 | 1 - <5 |
| Stearic acid | 57-11-4 | 1 - <5 |
| Carbon black | 1333-86-4 | 0.1 - <1 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | 0.1 - <1 |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- | 22673-19-4 | 0.1 - <1 |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | 0.1 - <1 |

**The exact percentage (concentration) of composition has been withheld as a trade secret*

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## 4. First-aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Small amounts of toxic methanol are released by hydrolysis. Call a physician immediately.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Itching. Rashes. Hives. May cause allergic skin reaction. May cause redness and tearing of the eyes.

**Effects of Exposure** No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. May cause sensitization by skin contact. Treat symptomatically.

## 5. Fire-Fighting Measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media**
**Large Fire** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Full water jet.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Silicon dioxide.

**Explosion data**
**Sensitivity to mechanical impact** None.

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| | |
|---|---|
| **Sensitivity to static discharge** | None. |

**5.3. Advice for firefighters**

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | As in any fire, wear pressure-demand, self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |

## 6. Accidental Release Measures

**6.1. Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal precautions** | Use personal protective equipment as required. Stop leak if you can do it without risk. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. |
| **Other information** | Refer to protective measures listed in Sections 7 and 8. |

**6.2. Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information. |

**6.3. Methods and material for containment and cleaning up**

| | |
|---|---|
| **Methods for containment** | Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). |
| **Methods for cleaning up** | Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. |
| **Reference to other sections** | See section 8 for more information. See section 13 for more information. |

## 7. Handling and storage

**7.1. Precautions for safe handling**

| | |
|---|---|
| **Advice on safe handling** | Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. |

**7.2. Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Storage Conditions** | Protect from moisture. Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feeding stuffs. |
| **Recommended storage temperature** | Keep at temperatures between 50 and 95 °F / 10 and 35 °C. |

**7.3 References to other sections**

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**Reference to other sections** Section 10: STABILITY AND REACTIVITY
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

**Exposure Limits** This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Carbonic acid, calcium salt (1:1) 471-34-1 | - | - | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust |
| Stearic acid 57-11-4 | TWA: 10 mg/m³ inhalable particulate matter<br>TWA: 3 mg/m³ respirable particulate matter | - | - |
| Carbon black 1333-86-4 | TWA: 3 mg/m³ inhalable particulate matter | TWA: 3.5 mg/m³<br>(vacated) TWA: 3.5 mg/m³ | IDLH: 1750 mg/m³<br>TWA: 3.5 mg/m³<br>TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-22673-19-4 | TWA: 0.1 mg/m³ Sn<br>STEL: 0.2 mg/m³ Sn<br>pSk | TWA: 0.1 mg/m³ Sn<br>(vacated) TWA: 0.1 mg/m³ Sn<br>(vacated) S* | IDLH: 25 mg/m³ Sn<br>TWA: 0.1 mg/m³ except Cyhexatin Sn |

| Chemical name | Argentina | Brazil | S.D. 594/1999 | Colombia |
|---|---|---|---|---|
| Stearic acid 57-11-4 | - | TWA-LT: 10 mg/m³; inhalable particulate matter | - | TWA: 10mg/m³<br>TWA: 3mg/m³ |
| Carbon black 1333-86-4 | TWA-CMP: 3.5 mg/m³; | TWA-LT: 3.5 mg/m³; inhalable particulate matter | - | TWA: 3mg/m³ |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-22673-19-4 | TWA-CMP: 0.1 mg/m³; STEL (CMP-CPT): 0.2 mg/m³; Sk | TWA-LT: 0.1 mg/m³; STEL: 0.2 mg/m³; | TWA-LPP: 0.09 mg/m³; STEL-LPT: 0.2 mg/m³; pSd | STEL: 0.2mg/m³<br>TWA: 0.1mg/m³ |

| Chemical name | Costa Rica | Peru | Uruguay | Venezuela |
|---|---|---|---|---|
| Carbonic acid, calcium salt (1:1) 471-34-1 | - | TWA: 10mg/m³ | - | TWA: 10 mg/m³ |
| Stearic acid 57-11-4 | - | - | 10 mg/m³ TWA (inhalable particulate matter, listed under Stearates); 3 mg/m³ TWA (respirable particulate matter, listed under Stearates) | - |
| Carbon black 1333-86-4 | TWA: 3mg/m³ | TWA: 3.5mg/m³ | 3 mg/m³ TWA (inhalable particulate matter) | TWA: 3.5 mg/m³ |
| Tin, dibutylbis(2,4-pentanedionato-O | STEL: 0.2mg/m³ | STEL: 0.2mg/m³<br>TWA: 0.1mg/m³ | 0.2 mg/m³ STEL (as Sn)<br>0.1 mg/m³ TWA (as Sn) | Skin<br>STEL: 0.2 mg/m³ |

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| Chemical name | Costa Rica | Peru | Uruguay | Venezuela |
|---|---|---|---|---|
| ,O')-, (OC-6-11)-<br>22673-19-4 | | | | TWA: 0.1 mg/m³ |

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Methyl alcohol<br>67-56-1 | TWA: 200 ppm<br>STEL: 250 ppm<br>pSk | TWA: 200 ppm<br>TWA: 260 mg/m³<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m³<br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m³<br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m³<br>STEL: 250 ppm<br>STEL: 325 mg/m³ |

| Chemical name | Argentina | Brazil | S.D. 594/1999 | Colombia |
|---|---|---|---|---|
| Methyl alcohol<br>67-56-1 | TWA-CMP: 200 ppm;<br>STEL (CMP-CPT): 250 ppm;<br>Sk | TWA-LT: 156 ppm;<br>TWA-LT: 200 mg/m³;<br>STEL: 250 ppm;<br>Sd | TWA-LPP: 175 ppm;<br>TWA-LPP: 229 mg/m³;<br>STEL-LPT: 250 ppm;<br>STEL-LPT: 328 mg/m³;<br>pSd | STEL: 250ppm<br>TWA: 200ppm |

| Chemical name | Costa Rica | Peru | Uruguay | Venezuela |
|---|---|---|---|---|
| Methyl alcohol<br>67-56-1 | STEL: 250ppm<br>TWA: 200ppm | STEL: 250ppm<br>STEL: 328mg/m³<br>TWA: 200ppm<br>TWA: 262mg/m³ | 250 ppm STEL<br>200 ppm TWA | Skin<br>STEL: 250 ppm<br>TWA: 200 ppm |

**8.2. Exposure controls**

**Appropriate engineering controls**

**Engineering controls** Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

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

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended.

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## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | Paste |
| **Color** | Black |
| **Odor** | No information available |
| **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | No data available | |
| **pH (as aqueous solution)** | No data available | None known |
| **Melting point / freezing point** | No data available | None known |
| **Initial boiling point and boiling range** | No data available | None known |
| **Flash point** | > 93.3 °C / 200 °F | |
| **Evaporation rate** | No data available | None known |
| **Flammability** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Vapor pressure** | No data available | None known |
| **Relative vapor density** | No data available | None known |
| **Relative density** | No data available | None known |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |

### 9.2. Other information

| | | |
|---|---|---|
| **Explosive properties** | No information available | |
| **Oxidizing properties** | No information available | |
| **Solvent content (%)** | No information available | |
| **Solid content (%)** | No information available | |
| **Softening point** | No information available | |
| **Molecular weight** | No information available | |
| **VOC content** | < 3 % 30 g/L | No information available |
| **Liquid Density** | 1.55 g/cm³ | |
| **Bulk density** | No information available | |

## 10. Stability and Reactivity

### 10.1. Reactivity

**Reactivity** Product cures with moisture.

### 10.2. Chemical stability

**Chemical stability** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

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**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

## 11. Toxicological information

**11.1. Information on toxicological effects**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes.

**Acute toxicity**
**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | |
|---|---|
| **ATEmix (oral)** | >5000 mg/kg |
| **ATEmix (dermal)** | 114,567.50 mg/kg |
| **ATEmix (inhalation-gas)** | >20000 ppm |
| **ATEmix (inhalation-dust/mist)** | >5 mg/l |
| **ATEmix (inhalation-vapor)** | 356.00 mg/l |

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Carbonic acid, calcium salt (1:1) | LD50 > 2000 mg/kg (Rattus) | LD50 >2000 mg/kg (Rattus) | LC50 (4h) >3mg/ml (Rattus) |

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| | | | |
|---|---|---|---|
| 471-34-1 | OECD 420 | OECD 402 | |
| Trimethoxyvinylsilane<br>2768-02-7 | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401 | = 3540 mg/kg (Oryctolagus cuniculus) | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| Stearic acid<br>57-11-4 | >5000 mg/Kg (Oryctolagus cuniculus) | > 5 g/kg (Oryctolagus cuniculus) | - |
| Carbon black<br>1333-86-4 | LD50 > 8000 mg/kg (Rattus) OECD 401 | > 3 g/kg (Oryctolagus cuniculus) | > 4.6046 mg/m³ ( Rat ) 4 h |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | =2295 mg/kg (Rattus) | >2000 mg/Kg (Rattus) | LC50 4H (Aerosol)1.5 - 2.44 mg/L air |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-<br>22673-19-4 | LD50 = 1864 mg/kg (Rattus) OECD 401 | LD50 > 2000 mg/kg (Rattus) OECD 402 | LC50 4hr: 16.8 mg/l (Rattus) (OECD TG 403) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | LD50 (Rattus)> 2000 mg/kg OECD 423 | LD50 (Rattus) > 3 170 mg/kg OECD 402 | =500 mg/m³ (Rattus) 4 h |

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

**Skin corrosion/irritation** May cause skin irritation.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | Rabbit | Dermal | 0.5 mL | 24 hours | Non-irritant |

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | | | | Mild skin irritant |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | Dermal | | | Non-irritant |

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | 24 hours | Non-irritant |

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | | Eye Damage |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | | Eye Damage |

**Respiratory or skin sensitization** May cause an allergic skin reaction.

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**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 471: Bacterial Reverse Mutation Test | in vitro | Not mutagenic |

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 471: Bacterial Reverse Mutation Test | Mammalian cells in vitro | Negative |
| OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes | Mammalian cells in vitro | Negative |

Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes | in vitro | Mutagenic |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

**Carcinogenicity** This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Carbon black 1333-86-4 | A3 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans | Group 2B | - | X |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- 22673-19-4 | A4 - Not Classifiable as a Human Carcinogen | - | - | - |

**Legend**
**ACGIH (American Conference of Governmental Industrial Hygienists)**
*A3 - Animal Carcinogen*
*A4 - Not Classifiable as a Human Carcinogen*
**IARC (International Agency for Research on Cancer)**
*Group 2B - Possibly Carcinogenic to Humans*
**Occupational Safety and Health Administration of the US Department of Labor**
*X - Present*

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Not Classifiable |

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N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat<br>Oral | NOAEL >500 mg/Kg |

Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 414: Prenatal Development Toxicity Study | Rat<br>Oral<br>in vivo | Read-across. Reproductive toxicant.<br>NOAEL: 1 mg/kg bw/day |
| OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test | Rat<br>Oral<br>in vivo | Read-across Reproductive toxicant<br>NOAEL 1.9-2.3 mg/kg bw/day |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 414: Prenatal Development Toxicity Study | Rat, Rabbit | Reproductive toxicant |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 413: Subchronic Inhalation Toxicity: 90-day Study | Rat | Inhalation vapor | | 90 days | 0.058 NOAEL |

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Subacute oral toxicity gavage | | 28 days | NOAEL >500 mg/kg |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

**Target organ effects** Respiratory system, Eyes, Skin.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

### 12.1. Toxicity

**Ecotoxicity**

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| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Carbonic acid, calcium salt (1:1) 471-34-1 | IC50 72H Algae >1000 mg/l | CL50 96H >1000 mg/l | - | EC50 48H Daphnia >1000 mg/l |
| Trimethoxyvinylsilane 2768-02-7 | EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3 | LC50 (96h) = 191 mg/l (Oncorhynchus mykiss) | - | EC50(48hr) 168.7mg/l (Daphnia magna) |
| Stearic acid 57-11-4 | EC50 >1016 mg/l 72Hr microbial growth inhibition | LC50 >1000 mg/l , 48 Hour | - | - |
| Carbon black 1333-86-4 | >10000 mg/l (Desmodesmus subspicatus) OECD 202 | >1000 mg/l (Brachydanio rerio) OCDE 203 | - | EC50: >5600mg/L (24h, Daphnia magna) |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | - | LC50 (96H) =597 mg/L (Danio rerio)Semi-static | - | EC50 (48h) =81mg/L Daphnia magna Static |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-22673-19-4 | >2.0 mg/l | >2.0 mg/l | - | EC50 0.0036 mg/l 48Hr (Daphnia magna) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata) | LC50 (96h) = 5.29 mg/l (Oryzias latipes) | - | LC50 48Hr 8.58 mg/l (Daphnia magna) |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Trimethoxyvinylsilane 2768-02-7 | 1.1 |
| Stearic acid 57-11-4 | 8 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | -0.3 |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | 0.35 |

## 12.4. Mobility in soil

**Mobility** No information available.

## Other adverse effects

**Other adverse effects** No information available.

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## 13. Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Contaminated packaging** Handle contaminated packages in the same way as the product itself.

## 14. Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material. 49 CFR 171.4(c) "Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.".

**DOT**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **Extended proper shipping name** | Environmentally hazardous substance, solid, n.o.s. (Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-,Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate) |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Special Provisions** | 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33 |
| **DOT Marine Pollutant** | I |
| **Marine pollutant** | Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-, Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s. (Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-,Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate), 9, III, Marine pollutant |
| **Emergency Response Guide Number** | 171 |

**IATA**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | Environmentally hazardous substance, solid, n.o.s.(Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-, Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate) |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Special Provisions** | A97, A158, A179, A197, A215 |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s.(Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-, Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate), 9, III |

**IMDG**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | Environmentally hazardous substance, solid, n.o.s.(Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-,Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate) |
| **Transport hazard class(es)** | 9 |

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| | |
|---|---|
| **Packing group** | III |
| **EmS-No.** | F-A, S-F |
| **Special Provisions** | 274, 335, 375, 966, 967, 969 |
| **Marine pollutant** | P |
| **IMDG Marine Pollutant Name** | Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-,Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s.(Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-,Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate), 9, III, Marine pollutant |

## 15. Regulatory Information

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL** | Complies |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL** - Canadian Domestic Substances List
**Complies** - The components of this product are either listed or exempt from listing on inventory. Active
**Not Listed** - One or more components of this product are not listed on inventory.

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## 16. Other Information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |

| | |
|---|---|
| **Prepared By** | Product Stewardship and Regulatory Affairs. |
| **Revision date** | 22-Apr-2025 |
| **Revision Note** | SDS sections updated. 1. 2. 3. 4. 7. 8. 11. 13. 15. |

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**End of Safety Data Sheet**