

# SAFETY DATA SHEET



## 1. Identification

Covestro LLC  
1 Covestro Circle  
Pittsburgh, PA 15205  
USA

### TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

### NON-TRANSPORTATION

Emergency Phone: Call Chemtrec  
Information Phone: (844) 646-0545

**Product Name:** MAKROLON 2405 901510  
**Material Number:** 00001446  
**Chemical Family:** Thermoplastic Polymer  
**Use:** Production of molded plastic articles

## 2. Hazards Identification

### GHS Classification

This product is not hazardous in the form in which it is shipped by the manufacturer.

### GHS Label Elements

Signal word: Warning

Hazard statements: If fine particles are generated during further processing, handling or by other means, product may form combustible dust concentrations in air.

## 3. Composition/Information on Ingredients

### Hazardous Components

The following potentially hazardous ingredient(s) are used to formulate this product. As supplied, the ingredient(s) are bound in the polymer matrix. Because they are bound in the matrix, they are not expected to create any unusual hazards when handled and processed according to good manufacturing and industrial hygiene practices and the guidelines provided in this SDS.

| Concentration | Components   | CAS-No.   |
|---------------|--------------|-----------|
| 0.1 - 1%      | Carbon Black | 1333-86-4 |

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade

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secret.

#### 4. First Aid Measures

##### **Most Important Symptom(s)/Effect(s)**

**Acute:** Contact with heated material can cause thermal burns., Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract.

##### **Eye Contact**

In case of contact, flush eyes with plenty of lukewarm water.

##### **Skin Contact**

Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.

##### **Inhalation**

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

##### **Ingestion**

Get medical attention.

#### 5. Firefighting Measures

**Suitable Extinguishing Media:** Water fog, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam

**Unsuitable Extinguishing Media:** High Pressure Water Streams

##### **Fire Fighting Procedure**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

##### **Hazardous Decomposition Products**

By Fire and Thermal Decomposition: Phenol Carbon oxides, Hazardous decomposition products due to incomplete combustion

##### **Unusual Fire/Explosion Hazards**

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Avoid generating dust: fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

#### 6. Accidental Release Measures

##### **Spill and Leak Procedures**

If molten, allow material to cool and place into an appropriate marked container for disposal. Sweep up and shovel into suitable containers for disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture as they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (e.g., cleaning dust from surfaces with compressed air).

## 7. Handling and Storage

### Handling/Storage Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces. Solid particulate can generate electrical charging during operations such as unloading from containers and pneumatic transfer. Provide adequate precautions, such as electrical grounding and bonding, where conductive equipment is involved.

### Storage Period:

None.

### Storage Temperature

**Maximum:** 49 °C (120.2 °F)

### Storage Conditions

Containers should be tightly closed to prevent contamination with foreign materials and moisture.

### Substances to Avoid

None known.

## 8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

### Exposure Limits

#### Carbon Black (1333-86-4)

US. ACGIH Threshold Limit Values, as amended

Time weighted average 3 mg/m<sup>3</sup> (Inhalable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

Permissible exposure limit 3.5 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values, as amended

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance to humans.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

### Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines, especially during cutting, grinding and high heat operations.

### Respiratory Protection

Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m<sup>3</sup> - respirable particles and 10 mg/m<sup>3</sup> - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). In the event that these limits are exceeded, an air purifying respirator (APR) equipped with particulate (P100) cartridges is recommended.

**Hand Protection**

Ensure gloves remain in good condition during use and replace if any deterioration is observed.  
Wear heat resistant gloves when handling molten material.

**Eye Protection**

Safety glasses with side-shields

**Skin Protection**

No special skin protection requirements during normal handling and use.

**Additional Protective Measures**

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling.

**9. Physical and Chemical Properties**

|                                                |                                                        |
|------------------------------------------------|--------------------------------------------------------|
| <b>Physical state:</b>                         | solid                                                  |
| <b>Appearance:</b>                             | pellets                                                |
| <b>Color:</b>                                  | Black                                                  |
| <b>Odor:</b>                                   | Odorless                                               |
| <b>Odor Threshold:</b>                         | No Data Available                                      |
| <b>pH:</b>                                     | not applicable                                         |
| <b>Melting Point:</b>                          | 220 - 280 °C (428 - 536 °F) (No statements available.) |
| <b>Boiling Point:</b>                          | No Data Available                                      |
| <b>Flash Point:</b>                            | Not applicable.                                        |
| <b>Evaporation Rate:</b>                       | No Data Available                                      |
| <b>Flammability:</b>                           | Ignition temperature more than 300 °C                  |
| <b>Lower Explosion Limit:</b>                  | not applicable                                         |
| <b>Upper Explosion Limit:</b>                  | not applicable                                         |
| <b>Vapor Pressure:</b>                         | not applicable                                         |
| <b>Vapor Density:</b>                          | No Data Available                                      |
| <b>Density:</b>                                | 1.2 g/cm <sup>3</sup> @ 23 °C (73.4 °F) (DIN 51757)    |
| <b>Relative Vapor Density:</b>                 | No Data Available                                      |
| <b>Specific Gravity:</b>                       | No Data Available                                      |
| <b>Solubility in Water:</b>                    | practically insoluble                                  |
| <b>Partition Coefficient: n-octanol/water:</b> | No Data Available                                      |
| <b>Auto-ignition Temperature:</b>              | > 450 °C (842 °F) (No statements available.)           |
| <b>Decomposition Temperature:</b>              | > 380 °C (716 °F)                                      |
| <b>Unblocking Temperature:</b>                 | No Data Available                                      |
| <b>Dynamic Viscosity:</b>                      | not applicable                                         |
| <b>Kinematic Viscosity:</b>                    | No Data Available                                      |
| <b>Bulk Density:</b>                           | ca. 700 kg/m <sup>3</sup> (No statements available.)   |
| <b>Molecular Weight:</b>                       | No Data Available                                      |
| <b>Self Ignition:</b>                          | not applicable                                         |
| <b>Particle characteristics:</b>               | No Data Available                                      |

**10. Stability and Reactivity****Hazardous Reactions**

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Hazardous polymerisation does not occur.

**Stability**

Stable

**Materials to Avoid**

None known.

**Conditions to Avoid**

Generation of dust clouds.

**Hazardous Decomposition Products**

By Fire and Thermal Decomposition: Phenol; Carbon oxides, Hazardous decomposition products due to incomplete combustion

**11. Toxicological Information**

**Likely Routes of Exposure:**

Inhalation  
Skin Contact  
Eye Contact

**Health Effects and Symptoms**

**Acute:** Contact with heated material can cause thermal burns., Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract.

**Toxicity Data for: MAKROLON 2405 901510**

No data available for this product.

**Toxicity Data for: Carbon Black**

**Acute Oral Toxicity**

LD50: > 8,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Dermal Toxicity**

LD50: > 3,000 mg/kg (rabbit)

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

Human, non-irritant

**Sensitization**

Buehler Test: negative (Guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay (LLNA)):: negative (Mouse, OECD Test Guideline 429)

**Repeated Dose Toxicity**

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat, )

**Mutagenicity**

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative

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Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without)  
Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (Mouse, male, intraperitoneal)

negative

#### **Carcinogenicity**

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

#### **Developmental Toxicity/Teratogenicity**

rat, female, Inhalative, 10 days, daily,

#### **Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

#### **Carcinogenicity:**

Carbon Black

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

### **12. Ecological Information**

#### **Ecological Data for: MAKROLON 2405 901510**

No data available for this product.

#### **Ecological Data for Carbon Black**

##### **Acute and Prolonged Toxicity to Fish**

LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

##### **Acute Toxicity to Aquatic Invertebrates**

EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

##### **Toxicity to Microorganisms**

EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

### **13. Disposal Considerations**

#### **Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

### **14. Transportation Information**

#### **Land transport (DOT)**

Non-Regulated

#### **Sea transport (IMDG)**

Non-Regulated

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**Air transport (ICAO/IATA)**  
**Non-Regulated**

**15. Regulatory Information**

**United States Federal Regulations**

**US. Toxic Substances Control Act:** Listed on the Active Portion of the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302.4) Components:**  
None

**SARA Section 311/312 Hazard Categories:**

Refer to hazard classification information in Section 2.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**  
None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**  
None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

The concentrations reported below in units of parts per million (ppm) or parts per billion (ppb) are maximum values.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

| <b><u>Concentration</u></b> | <b><u>Components</u></b>  | <b><u>CAS-No.</u></b>  |
|-----------------------------|---------------------------|------------------------|
| >=1%                        | Bisphenol A Polycarbonate | 25971-63-5             |
| >=1%                        | Bisphenol A Polycarbonate | CAS# is a trade secret |
| >=1%                        | Bisphenol A Polycarbonate | CAS# is a trade secret |

**Massachusetts Right to Know Extraordinarily Hazardous Substance List:**

| <b><u>Concentration</u></b> | <b><u>Components</u></b> | <b><u>CAS-No.</u></b> |
|-----------------------------|--------------------------|-----------------------|
| <=3 ppm                     | Methylene Chloride       | 75-09-2               |

**California Proposition 65 List:**

| <b><u>Concentration</u></b> | <b><u>Components</u></b> | <b><u>CAS-No.</u></b> |
|-----------------------------|--------------------------|-----------------------|
| <=3 ppm                     | Methylene Chloride       | 75-09-2               |
| Trace element               | Bisphenol A              | 80-05-7               |

**CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals**

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

Based on information provided by our suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

#### 16. Other Information

Contact: Product Safety Department  
Telephone: (412) 413-2835  
Version Date: 10/31/2025  
SDS Version: 2.8

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|| Changes since the last version are highlighted in the margin. This version replaces all previous versions.