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 2458 550115
Material Number: 77800645
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
There are no hazardous components above the relevant concentration limits according to OSHA HazCom 2012.

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 (CO2), 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:

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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**

Country specific exposure limits have not been established or are not applicable.

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/m3 - total dust, 5 mg/m3 - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m3 - respirable particles and 10 mg/m3 - 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

State of Matter: solid
Appearance: pellets
Color: Blue, Transparent
Odor: Odorless
Odor Threshold: No Data Available
pH: No Data Available
Melting Point: 220 - 280 °C (428 - 536 °F) (No statements available.)
Boiling Point: No Data Available
Flash Point: > 400 °C (752 °F) (No statements available.)
Evaporation Rate: No Data Available
Flammability: No Data Available
Lower Explosion Limit: No Data Available
Upper Explosion Limit: No Data Available
Vapor Pressure: not applicable
Vapor Density: No Data Available
Density: 1.2 g/cm³ @ 23 °C (73.4 °F) (DIN 51757)
Relative Vapor Density: No Data Available
Specific Gravity: Approximately 1.11
Solubility in Water: practically insoluble
Partition Coefficient: n-octanol/water: No Data Available
Auto-ignition Temperature: > 450 °C (842 °F) (No statements available.)
Decomposition Temperature: > 380 °C (716 °F)
Dynamic Viscosity: not applicable
Kinematic Viscosity: No Data Available
Bulk Density: ca. 700 kg/m³ (No statements available.)
Self Ignition: not applicable

10. Stability and Reactivity

Hazardous Reactions
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 2458 550115**

No data available for this product.

**Carcinogenicity:**
No carcinogenic substances as defined by IARC, NTP and/or OSHA

12. Ecological Information

**Ecological Data for: MAKROLON 2458 550115**

No data available for this product.

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

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

15. Regulatory Information

**United States Federal Regulations**
**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.

**US. EPA CERCLA Hazardous Substances (40 CFR 302) 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:**

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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

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:**

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;=1%</td>
<td>Bisphenol A Polycarbonate</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=3 ppm</td>
<td>Methylene Chloride</td>
<td>75-09-2</td>
</tr>
</tbody>
</table>

**California Proposition 65 List:**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=3 ppm</td>
<td>Methylene Chloride</td>
<td>75-09-2</td>
</tr>
<tr>
<td>Trace element</td>
<td>Bisphenol A</td>
<td>80-05-7</td>
</tr>
</tbody>
</table>

**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

The method of hazard communication for Covestro LLC is comprised of product labels and safety data sheets. Safety data sheets for all of our products and general product declarations are available for download at www.productsafetyfirst.covestro.com.

Contact: Product Safety Department
Telephone: (412) 413-2835
SDS Number: 112000012926
Version Date: 05/11/2018
SDS Version: 3.7

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