## SAFETY DATA SHEET



## 1. Identification

Covestro LLC 1 Covestro Circle Pittsburgh, PA 15205 USA

## TRANSPORTATION EMERGENCY

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

#### **NON-TRANSPORTATION** Emergency Phone: Information Phone:

Call Chemtrec (844) 646-0545

Product Name: Material Number: Chemical Family: Use:

#### 2. Hazards Identification

**GHS** Classification

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

81287954

<b>GHS Label Elements</b> 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.

MAKROLON 2407 021066

Production of molded plastic articles

Thermoplastic Polymer

#### 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.

Material Name: MAKROLON 2407 021066

## 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
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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:**

Material Name: MAKROLON 2407 021066

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:	White, Translucent
Odor:	Odorless
Odor Threshold:	No Data Available
pH:	No Data Available
Melting Point:	220 °C (428 °F)
Boiling Point:	No Data Available
Flash Point:	320 °C (608 °F)
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:	not applicable
<b>Relative Vapor Density:</b>	No Data Available
Specific Gravity:	Approximately 1.11
Solubility in Water:	practically insoluble
Partition Coefficient: n-	No Data Available
octanol/water:	
Auto-ignition Temperature:	>450 °C (>842 °F)
<b>Decomposition Temperature:</b>	>= 380 °C (716 °F)
Softening point:	130 - 160 °C (266 - 320 °F)
Dynamic Viscosity:	not applicable
Kinematic Viscosity:	No Data Available
Bulk Density:	600 - 700 kg/m3
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

Likely Routes of Exposure:	Inhalation Skin Contact Eye Contact	
Material Name: MAKROLON 2407 021066		Material Number: 81287954

#### 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 2407 021066

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 2407 021066

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

<u>Sea transport (IMDG)</u> Non-Regulated

<u>Air transport (ICAO/IATA)</u> 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:

Non-hazardous under Section 311/312

Material Name: MAKROLON 2407 021066

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:

Weight percent	<u>Components</u>	CAS-No.
>=1%	Bisphenol A Polycarbonate	CAS# is a trade secret
>=1%	Bisphenol A Polycarbonate	25971-63-5
>=1%	Acrylate Polymer	CAS# is a trade secret

## Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Weight percent	<u>Components</u>	CAS-No.
<=3 ppm	Methylene Chloride	75-09-2

## California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Female reproductive toxin.

Weight percent	<b>Components</b>	CAS-No.
<=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

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.

Material Name: MAKROLON 2407 021066

Product Safety Department
(412) 413-2835
112000031400
12/31/2016
2.3

Information contained in this SDS is believed to be accurate but is furnished without warranty, express or implied, including warranties of merchantability or fitness for a particular purpose. The information relates only to the specific material designated herein. Covestro LLC. assumes no legal responsibility for use of or reliance upon the information in this SDS and such information shall in no case be considered a part of our terms and conditions of sale. The user is responsible for determining whether the Covestro product is suitable for user's method of use or application. Covestro is not liable for any failure to observe the precautionary measures described in this SDS or for any misuse of the product.

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

Material Name: MAKROLON 2407 021066

Page: 7 of 7