

SAFETY DATA SHEET



1. Identification

Covestro LLC
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USA

TRANSPORTATION EMERGENCY

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

NON-TRANSPORTATION

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

Product Name: MAKROLON 2207 721081

Material Number: 86297345

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

Concentration	Components	CAS-No.
0.1 - 1%	Triphenyl Phosphine	603-35-0

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

4. First Aid Measures

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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:

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.

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9. Physical and Chemical Properties

Physical state:	solid
Appearance:	pellets
Color:	Gray
Odor:	Odorless
Odor Threshold:	No Data Available
pH:	not applicable
Melting Point:	220 °C (428 °F)
Boiling Point:	No Data Available
Flash Point:	Not applicable.
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Lower Explosion Limit:	not applicable
Upper Explosion Limit:	not applicable
Vapor Pressure:	not applicable
Vapor Density:	No Data Available
Density:	not applicable
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	practically insoluble
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	> 450 °C (> 842 °F)
Decomposition Temperature:	>= 380 °C (716 °F)
Unblocking Temperature:	No Data Available
Softening point:	130 - 160 °C (266 - 320 °F)
Dynamic Viscosity:	not applicable
Kinematic Viscosity:	No Data Available
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Self Ignition:	not applicable
Particle characteristics:	No Data Available

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 2207 721081

No data available for this product.

Toxicity Data for: Triphenyl Phosphine

Acute Oral Toxicity

LD50: 700 mg/kg (rat)

Acute Inhalation Toxicity

LC50: 12.5 mg/l, 4 h, aerosol (rat, male)

Acute Dermal Toxicity

LD50: > 4,000 mg/kg (rabbit, male/female)

Skin Irritation

rabbit, Non-irritating

Eye Irritation

rabbit, Corrosive

Sensitization

dermal: sensitizer (Guinea pig, Maximization Test)

Maximisation Test: positive (Guinea pig)

Repeated Dose Toxicity

oral: NOAEL: 6 mg/kg, LOAEL: 60 mg/kg, (Rat, Male/Female)

inhalation (dust/mist/fume): NOAEL: 10, (Dog, Male/Female)

Subacute toxicity

Mutagenicity

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Chromosome aberration test: negative (Metabolic Activation: without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (Mouse, Male/Female, intraperitoneal)
negative

Micronucleus Assay: negative (Mouse, Male/Female, intraperitoneal)
negative

Toxicity to Reproduction/Fertility

Fertility Screening, Oral, (rat, male/female) NOAEL (parental): 6 mg/kg,

Developmental Toxicity/Teratogenicity

rat, female, Oral, 6-19 p.c., daily, NOAEL (maternal): 30 mg/kg,

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Carcinogenicity:

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

12. Ecological Information**Ecological Data for: MAKROLON 2207 721081**

No data available for this product.

Ecological Data for Triphenyl Phosphine**Biodegradation**

Aerobic, < 20 %, Exposure time: 28 Days

Bioaccumulation

May bioaccumulate.

Acute and Prolonged Toxicity to Fish

LC50: > 10,000 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 0.6 mg/l (Water flea (Daphnia magna), 48 h)

Toxicity to Microorganisms

EC50: 1.54 mg/l, (Photobacterium phosphoreum, 30 min)

EC50: > 10,000 mg/l, (Pseudomonas putida, 30 min)

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

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15. Regulatory Information

United States Federal Regulations

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

SNUR Components

No substances are subject to Section 5 Significant New Use Rule (SNUR) requirements.

Section 6 Risk Management Components:

No substances are subject to Section 6 Risk Management rule requirement.

Section 12b Components:

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

Section 4 Test Order/Rule Components:

No substances are subject to Section 4 Final Test Orders or Rules.

Consent Order:

No substances are subject to Section 5 Consent Order requirements.

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:

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

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

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

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<=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: 1.2

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