

1 . Product and company identification

Product name	POLYPROPYLENE COPOLYMER
Supplier	INEOS USA LLC 2600 South Shore Blvd. League City, Texas 77573
Trade name	3560, 3950, L-series, N-series, R-series, T00G-00, T20N-00 and Experimental formulation.(designated by an "x" in the grade name)
Material uses	Consumer product. Industrial applications
MSDS #	0000001883 (NAP)
Emergency telephone number	1 (800) 424-9300 Outside the US: +1 703-527-3887 (CHEMTREC)

2 . Hazards identification

Physical state	Granular solid. Pellets. Powder or flakes.
Emergency overview	This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.
<u>Potential acute health effects</u>	
Inhalation	Dust: Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs. Vapor: If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.
Ingestion	No known significant effects or critical hazards.
Skin	No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.
Eyes	No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. Emits acrid smoke and irritating fumes when heated to decomposition.

3 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Propylene/Ethylene Polymer (Pure)	9010-79-1	>95

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

Eye contact	Cold material: Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. Get medical attention if irritation occurs. Hot material: Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. Seek medical attention if irritation persists.
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4 . First aid measures

Skin contact	If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention. Cold material: Wash with soap and water until no evidence of material remains.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5 . Fire-fighting measures

Flammability of the product	May be combustible at high temperature. Above 300°C decomposition occurs and flash of fumes may occur. Auto-ignition Temp. (°C): 390
Extinguishing media	
Suitable	In case of fire, use water spray (fog), foam or dry chemical.
Not suitable	Do not use water jet.
Special exposure hazards	This material is not explosive as defined by established regulatory criteria. High dust concentrations have a potential for combustion or explosion.
Hazardous thermal decomposition products	Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Special remarks on explosion hazards	High dust concentrations have a potential for combustion or explosion.

6 . Accidental release measures

Personal precautions	IN CASE OF A LARGE SPILL: Contact emergency personnel. Eliminate all ignition sources if safe to do so. Granules spilled on the floor can cause slipping. Fine dust clouds may form explosive mixtures with air. Do not touch or walk through spilled material. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).
Environmental precautions	If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.
Methods for cleaning up	
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7 . Handling and storage

Handling

There is a risk of being splashed with molten materials. Thermal burns are the most common injury caused while processing molten material. Do not inhale fumes or vapor from molten product. Use with adequate ventilation. When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product. Pneumatic conveying of powder and pellets can generate large static electrical charges. Electrical discharge in presence of air can cause an explosion. Earth all equipment. High dust concentrations have a potential for combustion or explosion. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Avoid strong oxidizers.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight. The main hazards are related to pallet stock slippage and forklift truck maneuvers, which can cause injury to personnel. It is recommended that adequate procedures covering storage and handling of pallets are established and maintained. These procedures must be kept up to date and regularly audited.

8 . Exposure controls/personal protection

Ingredient	Exposure limits
Propylene/Ethylene Polymer (Pure)	ACGIH TLV (United States). TWA: 10 mg/m ³ Form: Inhalable TWA: 3 mg/m ³ Form: Respirable fraction

Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures

Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day.

Personal protection

Respiratory

Product processing, heat sealing of film, or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

Hands

Hot material: Wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Cold material: None required; however, use of gloves is good industrial practice. Consult your local supplier of personal protective clothing regarding the choice of material.

Eyes

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9 . Physical and chemical properties

Physical state

Granular solid. Pellets. Powder or flakes.

Auto-ignition temperature

390°C (734°F)

Color

White, translucent or colorless.

Odor

Faint odor.

Melting/freezing point

145 to 165°C (293 to 329°F)

10 . Stability and reactivity

Chemical stability	The product is stable.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Stable under recommended storage and handling conditions (see section 7). If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Materials to avoid	No specific data.
Hazardous decomposition products	Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.
Incompatibility with various substances	Strong oxidizing materials

11 . Toxicological information

Carcinogenicity	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
Mutagenicity	No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a mutagen.
Teratogenicity	No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.
Fertility effects	No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a reproductive toxin.

12 . Ecological information

Environmental effects	No testing has been performed by the manufacturer.
Mobility	This product is lighter than water and will float on the surface. This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.
Other adverse effects	Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

13 . Disposal considerations

Waste disposal	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.
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Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Not classified as hazardous for transport (IMO, IATA/ICAO, DOT, TDG, Mexico).

15 . Regulatory information

HCS Classification

Not regulated.

U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

Rhode Island Hazardous Substances: None of the components are listed.

United States inventory (TSCA 8b)

All components are listed or exempted.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

International regulations

International lists

Please go to RPS online at www.ineos-op.com

16 . Other information

Label requirements

This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

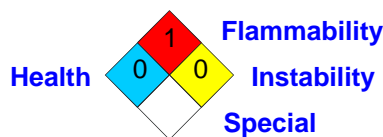
Hazardous Material Information System (U.S.A.)

Health	0
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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0.29

Prepared by

Product Stewardship

✔ Indicates information that has changed from previously issued version.

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