RheTech Polyolefin Compounding
A HEXPOL COMPANY

SAFETY DATA SHEET

SECTION I: MATERIAL AND SUPPLIER IDENTIFICATION

Manufacturer:	RheTech, LLC – A HEXPOL Company
Address:	1500 E. North Territorial Rd Whitmore Lake, MI 48189
Phone Number:	(734) 769-0585
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Product Name:	T20P270-01
Product Description:	20% Talc Reinforced, Polypropylene Copolymer, Black
Chemical Family:	Olefin Polymers and/or Copolymers with Reinforcements and Additives
Product Use:	Injection Molded Parts
Synonyms:	Plastic
Chemical Formula:	Mixture

SECTION II: HAZARD(S) IDENTIFICATION

Physical Hazards: Pellets could be a slip/fall hazard, dust from extrusion process could be mildly irritating to the skin and eyes. Molten polymer may cause severe burns. Dust generated during handling and storage can form explosive mixtures with air. Combustion products may be hazardous.

Health Hazards: None

OSHA Defined Hazards: None



Label Elements: (Signal Word)=None (Hazard Statement)=None (Hazards not otherwise classified)=None

SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

The breakdown of components listed below is for informational purposes only. The finished pelletized product is composed of a dispersion of the non-polymer components encapsulated in polypropylene. Thus, the individual health hazard associated with each component in raw form has been greatly reduced. See section IV and VIII for additional information.

Chemical Name/Description	CAS#	Concentration (%)	NIOSH / OSHA PEL	ACGIH TLV	LD50 or LC50, species and route
1. Polypropylene	9003-07-0	0 – 100	Not Established	Not Established	Inert
2. Polypropylene Copolymer	9010-79-1	0 – 100	Not Established	Not Established	Inert
3. Talc	14807-96-6	15 – 25	TWA 2 mg/m³ (resp)	TWA 2 mg/m³ (resp)	NE, lung irritant as airborne dust
4. Pigment	*Trade Secret	0 – 2	TWA 5 mg/m³ (resp)	TWA 3 mg/m³ (resp)	NE, lung irritant as airborne dust
5. Additives and Polymer Stabilizers	*Trade Secret	0 – 2	Not Established	Not Established	Not Applicable

*The specific chemical identity and/or exact concentration in the compound has been withheld due to the confidential nature of this information.

SECTION IV: FIRST AID MEASURES

Eye Irritation: Flush eyes thoroughly with clean, low-pressure water. If a loose pellet should get into eyes, treat as one would a foreign contaminant and seek medical attention.

Skin Irritation: Wash affected skin areas thoroughly with soap and water. Molten resin can cause severe thermal burns, cool quickly with water and seek immediate expert medical attention. Do not peel off solidified material.

Respiratory Irritation: Leave the exposure area and obtain fresh air. Provide appropriate protection before allowing re-entry. A physician should be contacted if irritation persists.

Ingestion: If product is ingested, give lots of water and seek medical attention, product in marketed form has minimal toxicity.

Acute Exposure: Some individuals with specific sensitivities may exhibit eye, nose, throat, or dermal irritation if overexposed to processing fumes.

Long Term Exposure: Prolonged or repeated exposure to vapors or smoke resulting from thermal processing may result in irritation of the upper respiratory tract. Respiratory reactions were observed in laboratory rats exposed to general purpose polypropylene resin at 700°F.

SECTION V: FIREFIGHTING MEASURES

Extinguishing Media: CO_2, Dry Chemical Fog, Water Spray

Explosion and Fire Hazards: No unusual hazards, however dust generated during handling and storage can form explosive mixtures with air. Combustion products may be hazardous.

Special Fire Fighting Procedures: Polypropylene is a slow burning plastic that generates a thick black smoke. Firefighters must wear self-contained breathing Apparatus. Garments for protection against thermal burns are recommended. Eye protection is strongly recommended.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Loose pellets may present a slipping hazard, clean immediately. Restrict access to keep out unauthorized personnel. Wear appropriate personal protective equipment during all clean-up activities.

Methods for Clean Up: Collect spilled material using a method that minimizes dust generation. Place in an appropriate container for disposal. If spilled in water, advise proper authorities and prevent entry into sewers if possible. If public is likely to be affected notify proper authorities.

SECTION VII: HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid dust generation. Avoid contact with eyes and skin. Accumulations of dust should be removed from settling areas. The handling of pellets in both loading and unloading operations as well as fabrication may cause dust to be formed. When transferring pellets, precautions such as grounding and bonding can prevent the buildup of static electricity. Avoid processing temperatures exceeding 550°F. Avoid excessive exposure to fumes released during processing. The interior of molten polymer masses may remain hot for some time because of low thermal conductivity, use caution in handling.

Storage: Store in cool dry place away from moisture, excessive heat, and sources of ignition.

SECTION VIII: EXPOSURE CONTROL AND PERSONAL PROTECTION

Permissible Exposure Limit (PEL): No limit established

Respiratory Protection: Respiratory protection approved by NIOSH/MSHA for protection against organic fumes and excessive airborne contaminants during material handling and/or processing. Appropriate respirator depends on type and magnitude of exposure.

Eye Protection: Wear safety glasses with side shields, goggles or face shield.

Skin Protection: Wear appropriate heat resistant gloves to prevent thermal burns when handling hot material during processing.

Ventilation: Local exhaust ventilation required above hot plastic processing areas to control fumes and dust generation.

Other: Wash hands thoroughly after handling. Do not eat, drink or smoke in work area. If unusual exposures are expected review engineering controls and personal protective equipment.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid	Appearance and Odor: Cylindrical to spherical black pellets with mild, non-specific odor.	
Specific Gravity, (H_20 = 1): 1.06	Melting Point: 162°C (324°F)	Boiling Point: Not determined
Vapor Pressure at 23°C: Negligible	Percent Volatile by Volume: Negligible	Vapor Density, (air = 1): Not Applicable
Evaporation Rate at 23°C: Not Applicable	Odor Threshold: Not Available	pH: Not determined
Solubility in Water at 23°C: Insoluble	Coefficient of Oil / Water Distribution: Not Available	Ignition Temperature: Not determined
Flash Point: Not Applicable	Flammability: Not Available	Flammability/Explosive Limits: Not determined
Decomposition Temperature: 320–400°C (610–750°F)	Viscosity: Not Available	

SECTION X: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Conditions to avoid: Avoid Methylene Chloride, Potassium Permanganate, Liquid Chlorine and other strong oxidizing agents

Hazardous Decomposition Products: Thermal decomposition can occur under certain conditions producing but limited to the following; CO, CO_2, and Organic Oxidation Products.

Hazardous Polymerization: Not expected to occur.

SECTION XI: TOXICOLOGICAL INFORMATION

Primary routes of exposure: Eye and skin contact

Potential Health effects:

Eye Contact: Solid particles may cause irritation from abrasion.

Skin Contact: Not likely to cause skin irritation. Molten material will cause thermal burns.

Inhalation: Not likely route of exposure in solid form. Processing fumes may cause irritation to the respiratory tract.

Ingestion: Not likely route of exposure. May cause choking hazard if swallowed.

Effects of Over Exposure: Prolonged or repeated exposure to vapors or smoke resulting from thermal processing may results in irritation of the upper respiratory tract. Respiratory reactions were observed in laboratory rats exposed to general purpose polypropylene resin at 700°F

Carcinogenicity: This chemical is not listed as a hazardous chemical or carcinogen according to the National Toxicology Program (NTP) and the International Agency for Research on Cancer (IARC) respectively.

SECTION XII: ECOLOGICAL INFORMATION

Eco Toxicological Information: No data is available on this product. This material is generally inert and insoluble and is not expected to have any adverse effect on the environment. This material may deteriorate by a number of mechanisms including photo- and thermo- oxidative degradation. Photo degraded polymers are also more easily biodegradable.

SECTION XIII: DISPOSAL CONSIDERATION

Disposal Method: Reprocess, recycle, incinerate, or dispose of this product in accordance with Federal, State, and Local regulations.

SECTION XIV: TRANSPORT INFORMATION

US DOT: Not regulated as a hazardous material or dangerous good for transportation
ICAO/IATA: Not regulated as a hazardous material or dangerous good for transportation
IMO/IMDG: Not regulated as a hazardous material or dangerous good for transportation
RID/ADR: Not regulated as a hazardous material or dangerous good for transportation
UN Number: Not applicable
Proper Shipping Name: T20P270-01
Transport Hazard Class: Not applicable
Packaging Group: Not applicable
Environmental Hazard: Not applicable
Packaging Group: Not applicable
Emergency Response Guide: Not applicable
Other Shipping Information: Not regulated by DOT as a hazardous material.

SECTION XV: REGULATORY INFORMATION

TSCA**:** The components of this product are either listed on the TSCA Inventory or exempt.
DSL**:** All components in this product are listed on the Canadian Domestic Source List.

OSHA Status: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR1910.1200 however, thermal processing and decomposition fumes from this product may be hazardous as noted in section V.

SARA Title III (Superfund Amendments and Reauthorization Act):
Section 312 Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: None
Section 313 Toxic Chemicals: None

SECTION XVI: PREPARATION INFORMATION AND REVISION OF THE SDS

The data in this Safety Data Sheet applies only to the specific material designated herein and does not relate to use in combination with any other material or process.
Information on this form is furnished solely for the purpose of compliance with OSHA's Hazardous Communication Standard, 29 CFR 1910.1200, and the Canadian Environmental Protection Act, 1999, and shall not be used for any other purpose.

Prepared by: Danny Kim
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Date: January 6, 2020

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