Composite Technologies Co., LLC.

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MATERIAL SAFETY DATA SHEET

SECTION I: MATERIAL IDENTIFICATION

Product Name: X-PRO Resins		Product Description Recycled Content, Polypropylene, General Purpose Black		
Product Use:	Injection Molded Parts	Chemical Family: Olefin Polymers and/or Copolymers		
Synonyms:	Plastic	Chemical Formula: Mixture		

SECTION II: COMPOSITION / 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 VI and VII for additional information.

Chemical Name/Description	Concentration (%)	NIOSH / OSHA PEL	ACGIH TLV	LD50 or LC50, species and route
1. Polypropylene CAS# 9003-07-0	50 - 100	Not Established	Not Established	Inert
2. Polypropylene Copolymer CAS# 9010-79-1	0 - 40	Not Established	Not Established	Inert
3. Calcium Carbonate CAS# 471-34-1	0-10	TWA 5 mg/m³ (resp)	TWA 10 mg/m³ (resp)	NE, lung irritant as airborne dust
4. Pigment CAS# 1333-86-4	0 - 2	TWA 5 mg/m³ (resp)	TWA 3 mg/m³ (resp)	NE, lung irritant as airborne dust
5. Additives and Polymer Stabilizers CAS# Multiple	0 - 2	Not Established	Not Established	Not Applicable

SECTION III: PHYSICAL DATA

Physical State: Solid	Appearance and Odor: Spherical black pellets with mild, non-specific odor.		
Specific Gravity, (H ₂ 0 = 1): 1.05	Melting Point: 161°C (322°F)	Boiling Point: Not Applicable	
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		
Solubility in Water at 23°C: Insoluble	Coefficient of Oil / Water Distribution: Not Available	pH: Not Applicable	

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): N/A ()TCC ()TOC()COC()PMCC()Seta	Flammable Limits: LEL: N/A UEL: N/A	Ignition Temperature: N/A
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Special Fire and Explosion Hazards: No unusual hazards, however, dust generated during handling and storage can form explosive mixtures with air. Combustion products may be hazardous.

Extinguishing Media: CO2, Dry Chemical Fog, Water Spray

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 V: REACTIVITY DATA

Stability: (X) Stable () Unstable Conditions to Avoid: None Determined

Incompatibility (Materials to Avoid): Water, Methylene Chloride, Potassium Permanganate, Liquid Chlorine

Hazardous Decomposition Products: CO, CO₂, and Organic Oxidation Products Hazardous Polymerization: (X) No () Yes Conditions to Avoid: N/A

SECTION VI: HEALTH HAZARD DATA

Route of Entry: Skin contact, eye contact, and inhalation.

Effects of Acute Exposure: This material has the potential to cause irritation to the mucus membranes of the eyes, nose, mouth, and lungs during certain uses or processes. Molten polymer may cause severe burns.

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SECTION VI: HEALTH HAZARD DATA (continued)
Effects of Overexposure: 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.
Effect on Eyes: () No effect () Transient (X) Possible Irritation () Severe Irritation () Corrosive
Effect on Skin: () No effect () Defatting (X) Possible Irritation () Severe Irritation () Corrosive
() Potential sensitizer () Known sensitizer () Absorption through skin
In vitro tests (Ames Test, etc) Test: N/A Result: N/A
Test: N/A Result: N/A
Chronic Effects: N/A
Respiratory Protection: Respiratory protection approved by NIOSH/MSHA for protection against organic fumes and excessive airborne contaminants.
Appropriate respirator depends on type and magnitude of exposure.
Ventilation: (X) Local Exhaust: Required above hot plastic processing areas
(X) Mechanical (general): Preferred to control general fumes
Protective Gloves: () No (X) Yes Specify: Gloves resistant to thermal burns.
Other Protective Equipment: Safety glasses recommended, emergency eye wash stations should be available in the work areas. Garments for protection
against thermal burns to prevent contact with molten polymer must be worn.
Other Precautions: Wash contaminated clothing before reuse. Wash hands with soap and water prior to food consumption. Respiratory protection for
precaution against dust generated during regrinding must be worn.
SECTION VIII: FIRST AID MEASURES
Emergency and First Aid Procedures: Some individuals with specific sensitivities may exhibit eye, nose, throat, or dermal irritation if overexposed to processing fumes. 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. In
case of ingestion, give lots of water and seek medical attention, product in marketed form has minimal toxicity. Skin irritation: wash affected areas with soap and water.
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. Molten resin can cause severe thermal burns, cool quickly with water and seek immediate expert medical
attention. Do not peel off solidified material.
SECTION IX: STORAGE AND HANDLING
Use appropriate personal protection equipment. Store in cool dry place, avoid excessive exposure to fumes released during processing. Avoid processing temperatures exceeding
550°F. Material can accumulate static charges that can cause incendiary electrical discharge. Keep away from sources of ignition and heat. The interior of molten polymer
masses may remain hot for some time because of low thermal conductivity, use caution in handling.
SECTION X: SPILL CLEAN-UP AND WASTE DISPOSAL
Steps to Be Taken in Case Material Is Released Or Spilled: Use appropriate personal protection equipment. If released or spilled, sweep and place in labeled container. Loose
pellets may present a slipping hazard, clean immediately. If spilled in water, advise proper authorities and prevent entry into sewer if possible. If public is likely to be affected,
notify proper authorities.
Waste Disposal Method: Reprocessing, recycling, incineration, or landfill in accordance with Local, State, and Federal regulations.
EPA Hazard Substance Category () X () A () B () C () D (X) N/A
(40 CFR 116-117) ()1 ()2 ()3 ()4 ()5 (X)6
SECTION XI: REGULATORY INFORMATION
The components of this product are either on the TSCA Inventory or exempt. All components in this product are listed on the Canadian Domestic Source List, DSL.
SECTION XII: LABELING INFORMATION
DOT labeling information (49 CFR 100-199)
Proper Shipping Name:
Hazard Classification: N/A
Labels(s) required: N/A
UN or NA Identification Number: N/A
RECRA Information (40 CFR 122-124, 205-265)
Hazardous Water Number(s): N/A
Hazard Code(s): N/A
SECTION XIII: PREPARATION INFORMATION
The data in this Material 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.
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Material Safety Data Sheet (Similar to OSHA form 174)
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