Advanced Composites

1. Identification

Product Name	EDX-2105U	
Product Description	Talc-filled, Impact-modified Polypropylene compound	
Physical Appearance	Black solid plastic pellets, approximately 1/8" – 3/8" (3mm – 10mm) in diameter, with slight to no odor	
Recommended Use	Injection molding. Intended for commercial use only.	
Manufacturer	Advanced Composites, Inc. www.advcmp.com	
Telephone Number	+1 (937) 575-9800	
Address	Ohio Plant 1062 S. 4th Ave. Sidney, OH 45365	Tennessee Plant 3066 Sidco Drive Nashville, TN 37204
24 HR. Emergency Contact Number	CHEMTREC (USA) +1 (800) 424-9300	

2. Hazard(s) Identification

Emergency Overview	·	
Hazard Classification (GHS-US)	Not classified as hazardous.	
Pictograms		
Signal Word	WARNING	
Hazards	Spilled pellets pose a slip hazard. Dust accumulation may cause explosions. High temperature processing fumes may be irritating to the eyes, nose, throat, and skin. May contain quartz and carbon black. Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Animal studies suggest that carbon black may cause lung cancer through inhalation. However, inhalation of quartz or carbon black dust from this product is not deemed likely due to the plastic resin form.	
Precautionary Statement	Maintain adequate ventilation to prevent accumulation of dust and fumes from processing. Dust created during handling or processing may be mildly irritating to the respiratory system. Keep away from sources of ignition. In solid form, this polymer product is not considered to be a health hazard, although the pellets and the dust generated from them may be mildly irritating to the skin and eyes by mechanical action. If swallowed, polymer may pose possible intestinal obstruction.	
Irritancy	When heated, this polymer may release fumes and/or vapors that are irritating to the eyes, nose, throat, and skin. Overexposure to fumes or vapors may also cause headache, nausea, shortness of breath, and cough.	

3. Composition/Information on Ingredients

-		
Component(s)	CAS Registry #	Weight %
Ethylene-propylene-copolymer	9010-79-1	+
Talc (Magnesium Silicate)	14807-96-6	+
Quartz (Crystalline silica, component of talc)	14808-60-7	≤ 1.0
Carbon Black (Pigment)	1333-86-4	+
		+ Proprietary information
Comments The listed components (if pres	sent in this product) are encansu	lated in a thermonlastic resin with limited

Comments The listed components (if present in this product) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. Increased release may occur when the resin (or material/product manufactured from it) is subject to grinding, polishing, excessive heat, or other processes which enhance the potential for the generation of particulates, fumes, and/or vapors. A qualified health specialist should evaluate the specific potential for release under user's conditions of handling of this material.

4. First-Aid Measures

Most Important Effects	Molten plastic can cause severe thermal burns.	
First Aid		
Skin Contact	If skin irritation or rash occurs, rinse or wash affected areas. Seek medical advice/attention if irritation persists. If contacted by molten polymer, cool immediately with cold or ice water. Do not attempt removal of any solidified material without medical assistance. Get medical attention immediately.	
	In the case of most burns, it may be advisable to allow solidified material to slough off on its own. Attempted removal may lead to more damage of the skin and underlying tissue. If removal is indicated (e.g. solidified material is located on a critical part of the hand or face), removal with mineral oil is recommended.	
Eye Contact	If contacted by molten polymer, immediately flush eyes with plenty of cool water for at least 15 minutes. Do not rub eyes. Get medical attention immediately.	
Ingestion	If product is ingested, contact a physician or the Poison Control Center as appropriate whenever any foreign object is swallowed. Rinse mouth. Do NOT induce vomiting.	
Inhalation	If irritation or dizziness occurs, evacuate to fresh air and remain at rest in a comfortable position for breathing. Seek medical advice/attention.	
Acute and Delayed Effects		
Skin Contact	Prolonged exposure may cause irritation, rash, or allergic skin reaction. Wash hands, other exposed areas, and clothing regularly. Seek medical advice if conditions persist.	
Eye Contact, Inhalation	Dust and fumes may cause irritation to the eyes, nose, throat, and lungs. Flush eyes with water or get to fresh air. Seek medical attention if irritation persists.	
Ingestion	May cause intestinal obstruction.	

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5. Fire-Fighting Measures

Flammable Properties		
Flammable Class	Class 1 – Must be heated to burn	
	Please use caution when handling material near open flame. Material will ignite when exposed to direct flame, but will not burn readily.	
Flash Point	Not established.	
Autoignition Temperature	>280°C (>536°F), ASTM E659	
Protective Equipment for Firefighters	Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with a full-face piece when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products.	
Suitable Extinguishing Media	 ✓ Water spray ✓ Dry chemical ✓ Foam ✓ Carbon dioxide 	
Fire Fighting Procedures	If possible, water should be applied as a spray from a fogging nozzle since this polymer is a surface burning material. The application of high velocity water will spread the burning layer. NOTE: Individuals should perform only those fire-fighting procedures for which they have been trained.	
Hazardous Combustion Products	Carbon, oxides of carbon, oxides of nitrogen, water, acrolein, formaldehyde, other aldehydes, ketones, alcohols, fatty acids, methane, ethane, acetylene, other organic vapors and fumes.	

6. Accidental Release Measures

Personal Precautions	Restrict access to only authorized personnel wearing appropriate personal protective equipment. Spilled pellets pose a slip hazard.	
Environmental Precautions	Keep spilled material away from heat, sparks, and open flames. Ensure adequate ventilation.	
Protective Equipment	Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133/ ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of OSHA 29CFR 1019.133/ ANSI Standard Z87.1 should be worn whenever there is a possibility of contact with the eyes.	
General Procedures	Where spills are possible, a comprehensive spill release response plan should be developed and implemented. Plastic pellets are listed as "significant materials" by US EPA (40CFR 122.26(b)(12)) and may need to be discussed in an application for a storm water discharge permit.	
Small Spill	Small spills can be swept up and recycled or disposed of.	

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Safety Data Sheet

Large SpillWear appropriate respiratory protection and protective clothing as described in Section8. Contain spilled material. Transfer to secure containers. In the event of an
uncontrolled release of this material, the user should determine if the release is
reportable under the applicable laws and regulations.

7. Handling & Storage	
Handling	The handling of pellets in both loading and unloading operations as well as fabrication may cause dust to be formed and necessary precautions for personal protection (see Section 8) should be taken. When transferring pellets, precautions such as grounding and bonding can prevent the buildup of static electricity.
Safe Storage	Store in a dry place away from moisture, excessive heat, and sources of ignition. Have emergency equipment for fires and spills readily available.
Incompatible Materials	Do not store with strong oxidizing agents such as nitric acid, sulfuric acid, halogens, hydrogen peroxide, and chlorinating agents.
Hygiene	Wash hands before eating, drinking, smoking, or using the restroom
Further Advice	Keep containers closed and/or covered when not in use.

8. Exposure Controls & Personal Protection

Engineering Controls	Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal Protective Equipment	
Skin	Wear heat protective gloves and clothing if there is a potential for contact with heated material.
Eyes and Face	Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133/ ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of OSHA 29CFR 1019.133/ ANSI Standard Z87.1 should be worn whenever there is a possibility of contact with the eyes.
Respiratory	Use a NIOSH-approved respirator whenever exposure may exceed established Occupational Exposure Limits.

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Occupational Exposure Limits

Component	Classification	Exposure Limit	
Talc (Magnesium Silicate)	ACGIH TWA	2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	
(14807-96-6)	ACGIH Category	Not classifiable as a Human Carcinogen containing no asbestos fibers	
	NIOSH IREL (TWA)	2 mg/m ³ (containing no asbestos and <1% quartz-respirable dust)	
	ILDH	1,000 mg/m ³ (containing no asbestos and <1% quartz)	
Quartz	AGCIH TWA	0.025 mg/m ³ (respirable fraction)	
(Crystalline Silica) (14808-60-7)	ACGIH Category	A2 – Suspected Human Carcinogen	
	NIOSH REL (TWA)	0.05 mg/m ³ (respirable dust)	
	IDLH	50 mg/m ³ (respirable dust)	
	OSHA PEL (STEL)	250 mppcf/%Si0 ₂ +5, 10mg/m ³ /%Si0 ₂ +2	
Carbon Black	ACGIH TWA	3.5 mg/m ³ (respirable fraction)	
(1333-86-4)	ACGIH Category	Confirmed animal carcinogen with unknown relevance to humans	
	NIOSH REL (TWA)	3.5 mg/m ³ 1.5 3.5 mg/m ³ (Carbon black in presence of Polycyclic aromatic)	
	US IDLH	1750 mg/m ³	
	OSHA TWA	3.5 mg/m ³	

9. Physical & Chemical Properties

Appearance	Black plastic pellets, approximately 1/8" – 3/8" (3mm – 10mm) in diameter	
Odor	Slight to no odor	
рН	Not applicable	
Melting Point	160~205°C (320~401°F)	
Boiling Point	None	
Flash Point	No data available	
Evaporation Rate	No data available	
Flammability	Will ignite when exposed to direct flame, but will not burn readily.	
Upper/Lower Explosive Limit	Not explosive	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	0.89 – 1.30	
Water Solubility	Not soluble	
Auto-ignition Temperature	>280°C (>536°F), ASTM E659	
Decomposition Temperature	No data available	
Viscosity	Not applicable	

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Safety Data Sheet

The physical property data above are typical values and should not be construed as a product specification.

10. Stability & Reactivity

Reactivity	Stable under recommended storage conditions (See Section 7)	
Conditions to Avoid	Avoid excessive heat, sparks, or open flame. Keep away from strong oxidizing agents.	
Materials to Avoid	May burn or react violently with fluorine/oxygen mixtures with 50~100% fluorine.	
Chemical Stability	May be decomposed by strong oxidizing agents such as nitric acid, sulfuric acid, halogens, hydrogen peroxide, and chlorinating agents.	
Hazardous Polymerization	Not likely under recommended storage conditions.	
Hazardous Decomposition	Combustion may produce carbon, oxides of carbon, oxides of nitrogen, water, acrolein, formaldehyde, other aldehydes, ketones, alcohols, fatty acids, methane, ethane, acetylene, other organic vapors and fumes.	

Primary Route(s) of Exposure	Eye and Skin Contact	Eye and Skin Contact		
Potential Health Effects				
Eye Contact	May cause irritation from r	nechanical abrasion.		
Skin	Pellets not expected to cau thermal burns.	Pellets not expected to cause skin irritation. Contact with molten material may cause thermal burns.		
Inhalation	Not a likely route of exposu	re. Process fumes may cause irritation.		
Ingestion	May pose a choking hazard	l if swallowed.		
Immediate Effects		Exposure during handling and processing may aggravate disorders of the eyes, skin, gastrointestinal tract, and respiratory system.		
Delayed Effects		There is no information on the long term health effects of exposure to this product or the fumes and dust that may result from the handling and processing of it.		
Acute Toxicity	Component	Measured Toxicity		
	Carbon Black (1333-86-4)	LD50: > 8000 mg/kg (Oral, Rat)		
	Quartz (14808-60-7)	LD50: > 5000 mg/kg (Oral, Rat) LD50: > 5000 mg/kg (Dermal, Rat)		
Carcinogenicity	(crystalline silica, naturally carcinogens. These compo	OSHA, IARC, and NTP have listed carbon black (pigment used in dark colors) and quartz (crystalline silica, naturally occurring in talc in low percentages) as known human carcinogens. These components are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.		
Reproductive Toxicity	Not classified	Not classified		

11. Toxicological Information

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Medical Conditions Aggravated There are no known medical conditions aggravated by exposure to this product. However, certain sensitive individuals with respiratory impairments may be affected by exposure to components in the processing emissions.

12. Ecological Information

Ecotoxicity	No data is available on the adverse environmental effects of this product. Ecotoxicity is expected to be low due to the limited water solubility of polymers. However, birds, fish, and other wildlife may eat pellets that may obstruct their intestinal tracts.
Persistence and degradability	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. Photodegraded polymers are also more easily biodegraded.
Bioaccumulation potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Product DisposalAll recovered material should be packaged, labeled, transported, and disposed of or reclaimed in
conformance with applicable laws and regulations and in conformance with good engineering practices.
Reclaim where possible.

14. Transport Information

This product is NOT regulated	d as a hazardous material/dangerou	us good for all forms of transportation
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In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
UN Number	None
UN Proper Shipping Name	None
Transport Hazard Class(es)	None
Packing Group	None
Special precautions to be aware of or comply with	None

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15. Regulatory Information

Fire No Pressure No Reactivity No Acute No Chronic No 302/304 This product does not contain chemicals regulated under SARA 302/304. 311/312 Hazard Categories This product does not contain chemicals regulated under SARA 313. * Title III Notes: This product contains no SARA "toxic chemicals" above threshold levels. State Regulations California California Known to the state of California to cause cancer: California Component 1333-86-4 Carbon Black (Airborne, unbound particles of respirable size)* 14808-60-7 Quartz (Airborne, unbound particles of respirable size)* * Note: The listed component(5) containd in this compound (finay) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on conten and release. Massachusetts Nay contain the following chemicals listed as "Right to Know" in these states: New Jersey Pennsylvania CAS Registry Component (1338-86-4) 14808-60-7 Carbon Black ** 1433-86-4 Carbon Black ** 1438-86-07 Carbon Black ** 14380-86-07 <td< th=""><th>United States</th><th>SARA TITLE III (Sup</th><th>erfund Ameno</th><th>dments and Reauthorization Act)*</th><th></th></td<>	United States	SARA TITLE III (Sup	erfund Ameno	dments and Reauthorization Act)*	
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Acute No Chronic No 302/304 This product does not contain chemicals regulated under SARA 302/304. 311/312 Hazard Categories This product does not meet the criteria of any SARA hazard categories. 313 Toxic Release This product does not contain any chemicals listed under SARA 313. * Title III Notes: This product contains no SARA "toxic chemicals" above threshold levels. State Regulations California California Known to the state of California to cause cancer: CAS Registry Component 1333-86-4 Carbon Black (Airborne, unbound particles of respirable size)* * Note: The listed component(s) contained in this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on content and release. Massachusetts May contain the following chemicals listed as "Right to Know" in these states: New Jersey Pennsylvania * Note: The listed component(s) contained in this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on content and release. Massachusetts New Jersey Pennsylvania CAS Registry Component (Section Black* 14807-96-6 Talc (Magnesi		Pressure		No	
Chronic No 302/304 This product does not contain chemicals regulated under SARA 302/304. 311/312 Hazard Categories This product does not contain any chemicals listed under SARA 313. * Title III Notes: This product contains no SARA "toxic chemicals" above threshold levels. State Regulations California California Known to the state of California to cause cancer: CAS Registry Component 1333-86-4 1333-86-4 Carbon Black (Airborne, unbound particles of respirable size)* * Note: The listed component(s) contained in this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on conten and release. Massachusetts New Jersey Pennsylvania CAS Registry Component 1333-86-4 Carbon Black* 14807-96-6 Talc (Magnesium Silicate)* 14807-96-6 Talc (Magnesium Silicate)* Intermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on conten and release. International Regulation All ingredients of this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on conten and release. International		Reactivity		No	
302/304 This product does not contain chemicals regulated under SARA 302/304. 311/312 Hazard Categories This product does not meet the criteria of any SARA hazard categories. 313 Toxic Release This product does not contain any chemicals listed under SARA 313. * Title III Notes: This product contains no SARA "toxic chemicals" above threshold levels. State Regulations California California Known to the state of California to cause cancer: CAS Registry Component 1333-86-4 Carbon Black (Airborne, unbound particles of respirable size)* 14808-60-7 Quartz (Airborne particles of respirable size)* * Note: The listed component(s) contained in this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on content and release. Massachusetts New Jersey May contain the following chemicals listed as "Right to Know" in these states:: New Jersey Pennsylvania * Note: The listed component(s) contained in this compound (if any) are encapsulated in a thermoplastic resin with limited release. International Regulation CAS Registry Cando To Quartz* All ingredients of this compound (if any) are encapsulated in a thermoplastic resin with limited release under normal conditions of use, transportation, and storage. See Section 3 for comments on conten a		Acute		No	
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CountryNotification ListingAustraliaAICSCanadaDSLChinaIECSEuropean UnionEINECS		All ingredients of thi	s compound a	re listed on the following inventories	s or are exempt from listing:
CanadaDSLChinaIECSEuropean UnionEINECS		Country		Notification Listing]
ChinaIECSEuropean UnionEINECS		Australia		AICS	
European Union EINECS		Canada		DSL	
		China		IECS	
		European Union		EINECS	
Japan ENCS/ISHL		Japan		ENCS/ISHL	
Korea ECL		Korea		ECL	
New Zealand NZIoC		New Zealand		NZIoC	
United States TSCA		United States		TSCA	

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The regulatory information presented here should not necessarily be considered as all-inclusive. Other General Comments local, state, federal, and international regulations may also apply.

16. Other Information

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Prepared By

Advanced Composites, Inc.

Manufacturer Disclaimer

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