HDS IDENTIFICATION	
HDS code	SDS-ADX-8317-ENG-JAN 23
revision #	0
Review date	January 2023

Advanced Composites Mexicana SA de CV

SAFETY DATA SHEET

SECTION 1: Identification of the hazardous chemical substance or mixture and the supplier or manufacturer

1.1 Product name: ADX-8317 (All color codes).
1.2 Product Description: Talc-filled, Impact-modified Polypropylene compound
1.3 Recommended use: **Injection molding. Intended for commercial use only.**
1.4 Manufacturer data:
ADVANCED COMPOSITES MEXICANA, SA DE CV
Av. Japan 306, San Francisco de los Romo Industrial Park.
San Francisco de los Romo, Ags.
Telephone: +52 (449) 925 40 10
1.5 Telephone in case of emergency:

Mexico:

***Emergency Number:**911

***National Communications Center / National Civil Protection System (CENACOM)**
-Mexico City and Metropolitan Area: 51 28 00 00 Exts. 11470 to 11476
-Interior of the Mexican Republic: 01 800 00 41 300
-Hours: 24 hours a day, 365 days a year.

United States of America:

***CHEMTREC (USA):**+1 (800) 424-9300

SECTION 2: Hazard Identification

2.1 Hazard Classification (GHS-US): Category 4. Acute toxicity in case of ingestion, or due to high temperature harmful in case of contact with the skin or by inhalation of processing vapors.

2.2 Pictogram and signal word:

WARNING

2.3 Hazard indications: H302+H312+H332 Harmful in case of ingestion, in contact with the skin or if high temperature processing vapors are inhaled.

Additional Information:

Spilled pellets pose a slipping hazard. Dust accumulation can cause explosions. May contain quartz and carbon black. Quartz dust has caused cancer and lung disease in workers who inhale it over a long period of time. Animal studies suggest that carbon black can cause lung cancer due to inhalation. However, inhalation of quartz or carbon black from this product is not considered likely due to the plastic resin form..

2.4 Precautionary measures:

P103 Read the label before use.
P210 Keep away from heat, sparks, open flames, hot surfaces and other ignition sources.
P261 Avoid breathing dusts / fumes / gases / mists / vapors / aerosols.
P301 + P330 + P331 If ingested, rinse mouth. Do not induce vomiting.
P305 + P351 + P338 In case of contact with eyes: Rinse carefully with water for several minutes. Remove contact lenses when present and can be done easily. Continue with washing.
P333+P313 In case of skin irritation or rash, rinse or wash the affected areas. Consult a doctor.
P304+P340 If inhaled, remove person to fresh air and keep in a position comfortable for breathing.
P370 + P378 In case of fire, use water spray, dry chemical powder, foam or carbon dioxide to extinguish.
P403 Store in a well ventilated place.
P502 Ask the manufacturer or supplier for information about recovery or recycling.

Additional Information:

Maintain adequate ventilation to prevent the accumulation of dust and processing fumes. In solid form, this polymeric product is not considered to be a health risk, although the pellets and the dust generated by them may be slightly irritating to the skin and eyes by mechanical action. If ingested, the polymer can possibly cause intestinal obstruction.

2.5 Irritability

When heated, this polymer may release fumes and/or vapors that irritate the eyes, nose, throat, and skin. Overexposure to fumes or vapors can also cause headache, nausea, difficulty breathing, and cough.

SECTION 3: Composition/information on ingredients:

Components	CAS# record	Percentage %
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, present in dark colors)**	1333-86-4	†
***Chromium Oxide, Cr_2O_3 (Pigment, present in some colors)**	1308-38-9	†
***Titanium dioxideTiO_2 (Pigment, present in some colors)**	13463-67-7	†

†Confidential business information
*The pigment portion may or may not be present in this material depending on the finished product, whether it is pre-colored or natural.

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 the material/product made from it) is subject to grinding, polishing, excessive heat or other processing that increases the potential for the generation of particles, fumes and/or vapors. A qualified health specialist should evaluate the specific release potential under the conditions of handling this material by the user.

SECTION 4: First aid

4.1 Most important effects: Molten plastic can cause severe burns.

4.2 First aid:

4.2.1 Skin contact: In case of skin irritation or rash, rinse or wash the affected areas. Seek medical attention if irritation persists. If you come into contact with molten polymer, cool immediately with cold water or ice. Do not attempt to remove any solidified material without medical assistance, obtain medical attention immediately. For most burns, it may be advisable to allow the solidified material to dislodge on its own. Attempted removal can cause further damage to the skin and underlying tissue. If removal is indicated (for example, solidified material is located on a critical part of the hand or face), extraction with mineral oil is recommended.

4.2.2 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.

4.2.3 Ingestion: f 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.

4.2.4 Inhalation: If irritation or dizziness occurs, evacuate to fresh air and remain at rest in a comfortable position for breathing. Seek medical advice/attention.

4.3 Acute and delayed effects:

***4.3.1 Skin contact*:** Prolonged exposure may cause irritation, rash, or allergic skin reaction. Wash your hands, other exposed areas, and clothing regularly.

4.3.2 Eye Contact/Inhalation: Dust and vapors may cause irritation to the eyes, nose, throat and lungs. Rinse eyes with water or fresh air. Seek medical attention if irritation persists.

4.3.3 Ingestion: May cause intestinal obstruction.

SECTIÓN 5: Fire-Fighting Measures

5.1 Flammable properties:

5.1.1 Flammability class: Class 1- Can be heated or burned. Use caution when handling material near open flames. The material will ignite when exposed to direct flame, but will not burn easily.

5.1.2 Flash point: Not established.

5.1.3 Autoignition temperature:280°C (>536°F), ASTM E659

5.2 Protective equipment for firefighters: Firefighters should wear self-contained breathing apparatus in positive pressure mode with a full-face respirator when there is a potential for exposure to hazardous vapors, fumes, or decomposition products.

5.3 Suitable extinguishing media:

- Spray water
- dry chemical powder
- Foam
- Carbon dioxide

5.4 Firefighting procedure: If possible, water should be applied as a spray from a misting nozzle, since this polymer is a surface burning material. Applying water at high speed will spread the combustion layer.

- **NOTE:** Individuals should only perform firefighting procedures for which they have been trained.

5.5 Hazardous combustion products: Carbon, carbon oxides, nitrogen oxides, water, acrolein, formaldehyde, other aldehydes, ketones, alcohols, fatty acids, methane, ethane, acetylene, other organic vapors and fumes.

SECTIÓN 6. Accidental Release Measures

6.1 Personal precautions: Restrict access to only authorized personnel wearing appropriate personal protective equipment. Spilled pellets pose a slipping hazard.

6.2 Environmental precautions: Keep spilled material away from fire, sparks and open flames. Ensure adequate ventilation.

6.3 Protective equipment: Wear safety glasses that meet the specifications of OSHA 29CFR 1910.133 / ANSI Z87.1 where eye contact is not anticipated. Safety glasses that meet the specifications of OSHA 29CFR 1019.133 / ANSI Z87.1 should be worn whenever there is a possibility of eye contact.

6.4 General procedures: Where spills are possible, a comprehensive spill emergency response plan should be developed and implemented. Plastic pellets are listed as "significant materials" by the US EPA (40CFR 122.26 (b)(12)) and may need to be discussed in a permit application for a stormwater discharge.

6.5 Small spill: Small spills can be swept up and recycled or disposed of.

6.6 Large spill: Use appropriate protective equipment and protective clothing as described in section 8. Contain spilled material. Transfer to secure containers. In the event of an uncontrolled release of this material, the user should determine whether it should be reported under applicable laws and regulations.

SECTION 7. Handling and storage

7.1 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

7.2 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.

7.3 Incompatible materials: Do not store with strong oxidizing agents such as nitric acid, sulfuric acid, halogens, hydrogen peroxide, and chlorinating agents.

7.4 Hygiene: Wash hands before eating, drinking, smoking, or using the restroom.

7.5 Further Advice: Keep containers closed and/or covered when not in use.

SECTIÓN 8. Exposure Controls & Personal Protection

8.1 Engineering controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Emergency eyewash devices and safety showers should be available in the immediate vicinity of any potential exposure.

8.2 Personal protective equipment:

8.2.1 Skin: Use heat protective gloves and clothing if there is potential for contact with heated material.

8.2.2 Eyes and face: Wear safety glasses that meet the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 where eye contact is not anticipated. Safety glasses that meet the specifications of OSHA 29CFR 1019.133 / ANSI Z87.1 should be worn whenever the possibility of eye contact exists.

8.2.3 Respiratory: Use a NIOSH approved respirator whenever exposure exceeds established Occupational Exposure Limits.

8.3 Occupational exposure limits

Component	Classification	Exposure limit
Talc (Magnesium Silicate) (14807-96-6)	ACGIH TWA	2 mg/m3 (Particles that do not contain asbestos and <1% crystalline silica, respirable fraction)
	ACGIH Category	Not classifiable as a Human Carcinogen, does not contain asbestos fibers
	NIOSH IREL (TWA)	2 mg/m3 (Does not contain asbestos and <1% respirable dust in quartz)
	ILDH	1,000 mg/m3 (No asbestos and <1% quartz)
	NOM-010-STPS-2014	2 mg/m^3 (VLE-CT or P)
Quartz Crystalline Silica (14808-60-7)	AGCIH TWA	0.025 mg/m3 (Respirable fraction)
	ACGIH Category	A2 – Suspected human carcinogen

	NIOSH REL (TWA)	0.05 mg/m3 (Respirable dust)
	IDLH	50 mg/m3 (Respirable dust)
	OSHA PEL (STEL)	250 mppcf/%Si02+5, 10mg/m3/%Si02+2
	NOM-010-STPS-2014	0.025 mg/m^3(VLE-PPT)
Carbon Black (1333-86-4)	ACGIH TWA	3.5 mg/m3 (Respirable fraction)
	ACGIH Category	Confirmed animal carcinogen with unknown relevance to humans.
	NIOSH REL (TWA)	3.5mg/m3 1.5 3.5 mg/m3 (Carbon black in the presence of polycyclic aromatics)
	US IDLH	1750mg/m3
	OSHA TWA	3.5mg/m3
	NOM-010-STPS-2014	3 mg/m^3(VLE-PPT)
Chromium Oxide (Cr2 OR 3) (1308-38-9)	ACGIH TWA	0.05 mg/m3 0.5 (Compounds Cr II and Cr III) 0.05 (Cr VI Soluble in water)
	OSHA PEL (TWA)	1 (metal) 0.5 (Cr II & Cr III Compounds) 0.005 (Cr VI Compounds)
	NOM-010-STPS-2014	No information available
Titanium Dioxide (TiO2) (13463-67-7)	OSHA TWA	15 mg/m3 Total dust
	ACGIH TWA	10mg/m3
	NIOSH IDLH	5,000 mg/m3
	NOM-010-STPS-2014	10 mg/m3 (VLE-PPT)

SECTION 9. Physical and Chemical Properties

Property	Description
Appearance	Colored plastic pellets, approximately 1/8” to 3/8” (3mm – 10mm) in diameter.
Smell	Light or odorless

Pain threshold	Not applicable
Hydrogen potential, pH	Not applicable
Melting point/freezing point	160~205°C (320~401°F)/Not available
Initial point and boiling range	None
Flashpoint	Data not available
Evaporation rate	Data not available
Inflammability	It will ignite when exposed to direct flame, but will not burn easily.
Upper/lower flammability or explosive limit	Not explosive
Vapor pressure	Data not available
Vapor density	Data not available
Relative density	0.89 – 1.30
Solubility	Not soluble
n-octanol/water partition coefficient	Data not available
Autoignition temperature	>280°C (>536°F), ASTM E659
Decomposition temperature	Data not available
Goo	Not applicable
Molecular weight	Data not available

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

SECTION 10. Stability and reactivity

10.1 Reactivity: Stable under recommended storage conditions (See section 7).

10.2 Chemical stability: It can be decomposed due to strong oxidizing agents such as nitric acid, sulfuric acid, halogens, hydrogen peroxide and chlorinating agents.

10.3 Dangerous polymerization: Not likely under recommended storage conditions.

10.4 Conditions to avoid: Avoid excessive heat, sparks or open flame. Keep away from strong oxidizing agents.

10.5 Incompatible materials: May burn or react violently with fluorine/oxygen mixtures with 50~100% fluorine.

10.6 Hazardous decomposition products: Combustion may produce carbon, carbon oxides, nitrogen oxides, water, acrolein, formaldehyde, other aldehydes, ketones, alcohols, fatty acids, methane, ethane, acetylene, other vapors and gases.

SECTION 11. Toxicological information

11.1 Primary routes of exposure: Contact with skin and eyes

11.2 Potential health effects:

11.2.1 Eye contact: May cause irritation due to mechanical abrasion.

11.2.2 Skin: The pellets are not expected to cause skin irritation. Contact with molten material may cause burns.

11.2.3 Inhalation: It is not a probable route of exposure. Process fumes may cause irritation.

11.2.4 Ingestion: May cause a choking hazard if swallowed.

11.3 Immediate effects: Exposure during handling and processing can aggravate disorders of the eyes, skin, gastrointestinal tract, and respiratory system.

11.4 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 its handling and processing.

11.5 Acute toxicity:

Component	Toxicity measurement
Carbon black (1333-86-4)	**LD50:**> 8000 mg/kg (Oral, Rat)
Chromium Oxide (Cr2 OR 3) (1308-38-9)	**ATE:**100.00 mg/kg body weight (Oral) **ATE:**1.50 mg/l/4h (Dust/mist)
Titanium dioxide (13463-67-7)	**LD50:**> 5000 mg/kg (Oral, Rat) **LC50:**> 6.82 mg/L (Inhaled dust/mist, male rat)
Quartz (14808-60-7)	**LD50:**> 5000 mg/kg (Oral, Rat) **LD50:**> 5000 mg/kg (Dermal, Rat)

11.6 Carcinogenicity: OSHA, IARC and NTP have listed carbon black (Pigment used in dark colors) and quartz (crystalline silica, which occur naturally in talc in low percentages) as known human carcinogens. Titanium dioxide and chromium oxide have been identified as suspected or confirmed human carcinogens. These components are essentially bonded to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

11.7 Reproductive toxicity: Not qualified.

11.8 Aggravated medical conditions: There are no medical conditions aggravated by exposure to this product. However, sensitive individuals with respiratory impairment may be affected by exposure to components in processing emissions.

SECTION 12. Ecological Information

12.1 Ecotoxicity: There are no data available on the adverse environmental effects of this product. Ecotoxicity is expected to be low due to the limited water solubility of the polymers. However, birds, fish and other wildlife can eat pellets which can clog their intestinal tracts.

12.2 Persistence and degradability: This material is generally inert and insoluble and is not expected to have any effects on the environment. This material can deteriorate by mechanisms including photo- and thermo-oxidant degradation. Photodegraded polymers are also readily biodegradable.

12.3 Bioaccumulative potential: Data not available.

12.4 Mobility on the ground: Data not available.

12.5 Other adverse effects: Data not available.

SECTION 13. Disposal Considerations

13.1 Product layout: All recovered material must be packaged, labeled, transported and disposed of in accordance with applicable laws and regulations and in accordance with good engineering practices. Recover when possible.

SECTION 14. Transport information

This product is NOT regulated as a hazardous material for all forms of transportation.

Regulation in Mexico:

- **UN number:**None.
- **UN proper shipping name:**None.
- **Transport hazard class(es):**None.
- **Packing group, if applicable:**None.
- **Environmental risks:**No additional information available.
- **Special precautions for user:**None.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code (IBC):**None.

Regulation in the United States of America.

- **According to DOT:**Not regulated for transportation
- **According to IMDG:**Not regulated for transportation
- **According to IATA:**Not regulated for transportation
- **Number one:**None
- **UN Appropriate Shipping Name:**None
- **Transport hazard class(es):**None
- **Packing group:**None

- **Special precautions to take into account or comply with:** None.

SECTION 15. Regulatory information

15.1 United States of America

SARA TITLE III (Superfund Amendments and Reauthorization Act)*	
Fire	No
Pressure	No
Reactivity	No
Sharp	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 for any SARA hazard category.
313 Toxic release	This product does not contain any chemicals listed under SARA 313.

* Title III Notes: This product does not contain "Toxic Chemicals" above the limits.

15.2 International regulation

All ingredients in this compound are listed in the following inventories or are exempt from listing:

Country	Notification list
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
USA	TSCA

SECTION 16. Other Information

- **Prepared by:** Advanced Composites Mexicana, SA de CV
- **Production date:** January 2023.

The information is believed to be correct, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product.

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