

HDS IDENTIFICATION	
SDS Code	SDS ADX 2341 ENG AUG 23
# of revision	0
Review date	August 2023

SAFETY DATA SHEET

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

1.1 Product name: ADX-2341 (All color codes).

1.2 Product Description: Impact modified polypropylene composite with talc filler.

1.3 Recommended use: Injection moulded. Intended for commercial use only.

1.4 Manufacturer:

Mexican Advanced Compounds, S.A. DE C.V.

AV. Japan 306, San Francisco de los Romo Industrial Park.

San Francisco de los Romo, Ags.

Phone number: +52 (449) 925 40 10

1.5 Emergency contact number:

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 hrs., 365 days.

USA:

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

SECTION 2: Hazard identification

2.1 Hazard Classification (GHS-US):Category 4. Acute toxicity if swallowed or at high temperatures, harmful if in contact with skin or if processing fumes are inhaled.

2.2 Pictograms and signal words:



Warning

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2.3 Hazard statements:

H302+H312+H332Harmful if swallowed, in contact with skin or if high temperature processing fumes are inhaled.

H320Causes eye irritation due to generation of high temperature processing fumes.

Additional information:

Spilled pellets pose a slipping hazard. Dust accumulation may cause explosions. High-temperature processing fumes may be irritating to eyes, nose, throat, and skin. May contain quartz and carbon black. Quartz dust has caused cancer and lung disease in workers who inhale it over an extended period of time. Animal studies suggest that carbon black may cause lung cancer if inhaled. However, inhalation of quartz or carbon black dust from this product is not considered likely due to the plastic resin form.

2.4 Precautionary measures:

P103Read label before use.

P210Keep away from heat, sparks, flames, hot surfaces and other ignition sources.

P261Avoid breathing dust/fume/gas/mist/vapours/spray.

P301 + P330 + P331If swallowed, rinse mouth. Do not induce vomiting.

P305 + P351 + P338In case of contact with eyes: Rinse with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

P333+P313If skin irritation or rash occurs, rinse or wash affected areas. Consult a doctor.

P304+P340In case of inhalation, remove the person to fresh air and keep in a position that facilitates breathing.

P370 + P378In case of fire, use water spray, dry chemicals, foam or carbon dioxide to extinguish.

P403Store in a well-ventilated place.

P502Ask the manufacturer or supplier for information on recovery or recycling.

Additional information:

Maintain adequate ventilation to prevent accumulation of dust and fumes during processing. Dust created during handling or processing may be mildly irritating to the respiratory system. Keep away from ignition sources. In solid form, this polymeric product is not considered a health hazard, although granules and dust generated from them may be mildly irritating to skin and eyes by mechanical action. If ingested, the polymer may cause possible intestinal obstruction.

2.5 Irritability

When heated, this polymer can release fumes or vapors that irritate the eyes, nose, throat, and skin. Overexposure to fumes or vapors can also cause headache, nausea, shortness of breath, and coughing.

SECTION 3:Composition/Information on ingredients

Component(s)	CAS registry number	Weight %
Ethylene-propylene copolymer	9010-79-1	55-70
Elastomer	†	5-15
Talc (magnesium silicate)	14807-96-6	20-30
Quartz (crystalline silica, component of talc)	14808-60-7	≤1.0
*Carbon black (pigment)	1333-86-4	0-3

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†Proprietary Information

*The pigment portion may or may not be present in this material depending on the finished product if 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, shipping and storage. Increased release may occur when the resin (or material or product manufactured from it) is subjected to grinding, polishing, excessive heat or other processes that increase the potential for generation of particulate, fume or vapor. The specific release potential under the conditions of handling of this material by the user should be evaluated by a qualified health care professional.

SECTION 4: First aid measures

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

4.2 First aid:

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

4.2.2 Eye contact: In case of contact with molten polymer, immediately flush eyes with plenty of cold water for at least 15 minutes. Do not rub eyes. Seek medical attention immediately.

4.2.3 Ingestion: If any foreign object is swallowed, contact a physician or Poison Control Center as appropriate. Rinse mouth. DO NOT induce vomiting.

4.2.4 Inhalation: In case of irritation or dizziness, evacuate the patient to fresh air and remain at rest in a position comfortable for breathing. Consult a doctor.

4.3 Acute and delayed effects:

4.3.1 Skin contact: Prolonged exposure may cause skin irritation, rash, or allergic reaction. Wash hands, exposed areas, and clothing regularly. Seek medical attention if conditions persist.

4.3.2 Eye contact, inhalation: Dust and fumes may cause irritation to eyes, nose, throat and lungs. Flush eyes with water or remove to fresh air. Seek medical attention if irritation persists.

4.3.3 Ingestion: May cause intestinal obstruction.

SECTION 5: Firefighting measures

5.1 Flammable properties:

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5.1.1 Flammable class: Class 1: Must be heated to burn. Use caution when handling material near an open flame. Material will ignite if exposed to direct flame, but will not readily burn.

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

Firefighters must wear self-contained breathing apparatus in positive pressure mode with a full-face mask when there is a possibility of exposure to smoke, vapors, or hazardous decomposition products.

5.3 Suitable extinguishing media:

- Water spray
- Dry chemical product
- Foam
- Carbon dioxide

5.4 Firefighting procedures: If possible, water should be applied in the form of a mist from a fog nozzle, as this polymer is a surface-burning material. High velocity water application will spread the burnt layer.

- **NOTE:** Persons should only perform those 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.

SECTION 6. Accidental release measures

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

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

6.3 Protective equipment: Wear safety glasses that meet OSHA 29CFR 1910.133/ANSI Standard Z87.1 specifications when eye contact is not anticipated. Chemical safety glasses that meet OSHA 29CFR 1019.133/ANSI Standard Z87.1 specifications must be worn whenever the possibility of eye contact exists.

6.4 General procedures: In cases where spills are a possibility, a comprehensive spill response plan must be developed and implemented. Plastic pellets are classified by the U.S. EPA as "significant materials" (40CFR 122.26(b)(12)) and may need to be analyzed in a stormwater discharge permit application.

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

6.6 Large spill: Wear appropriate respiratory protection 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 must determine if the release is reportable under applicable laws and regulations.

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SECTION 7. Handling and storage

7.1 Handling: Handling pellets, both in loading and unloading operations and in manufacturing, can result in dust formation, so appropriate precautions should be taken for personal protection (see Section 8). When transferring pellets, precautions such as grounding and bonding should be taken to prevent static electricity build-up.

7.2 Safe storage: Store in a dry place, away from moisture, excessive heat and ignition sources. Keep emergency equipment for fires and spills on hand.

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 your hands before eating, drinking, smoking, or using the bathroom.

7.5 More tips: Keep containers closed and/or covered when not in use.

SECTION 8. Exposure controls and personal protection

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

8.2 Personal protective equipment:

8.2.1 Skin: Use gloves and heat protective clothing if there is a possibility of contact with heated material.

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

8.2.3 Respiratory: Use a NIOSH-approved respirator whenever exposure may exceed established occupational exposure limits.

8.3 Occupational exposure limits

Component	Classification	Exposure limit
Talc (magnesium silicate) (14807-96-6)	ACGIH TWA	2 mg/m ³ (non-asbestos-containing particles and <1% crystalline silica, respirable fraction)
	ACGIH Category	Not classifiable as a human carcinogen because it does not contain asbestos fibres.
	NIOSH IREL (TWA)	2 mg/m ³ (contains no asbestos and <1% combinable quartz dust)
	ILDH	1,000 mg/m ³ (without asbestos and <1% quartz)

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	NOM-010-STPS-2014	No data available
Quartz (crystalline silica) (14808-60-7)	AGCIH TWA	0.025 mg/m3 (respirable fraction)
	Category ACGIH	A2 – Suspected human carcinogen
	NIOSH occupational	0.05 mg/m3 (respirable dust)
	Unacceptable for life and health	50 mg/m3 (respirable dust)
	OSHA Safety Allowable Level (STEL)	250 mppcf/%SiO ₂ +5, 10 mg/m ³ /%SiO ₂ +2
	NOM-010-STPS-2014	0.025 mg/m ³ (VLE-PowerPoint presentation)
Carbon black (1333-86-4)	ACGIH TWA	3.5 mg/m3 (respirable fraction)
	ACGIH Category	Confirmed animal carcinogen with unknown relevance to humans
	NIOSH occupational	3.5 mg/m ³ 1.5 3.5 mg/m ³ (Carbon black in the presence of polycyclic
	US IDLH	1750 mg/m ³
	OSHA TWA	3.5 mg/m ³
	NOM-010-STPS-2014	3 mg/m ³ (VLE-PowerPoint presentation)
	NOM-010-STPS-2014	No data available
	NIOSH Life-Disability Death Hazards (IDLH)	5,000 mg/m ³
	NOM-010-STPS-2014	10 mg/m ³ (VLE-PPT)

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SECTION 9. Physical and chemical properties

Property	Description
Appearance	Colored plastic beads, approximately 1/8" – 3/8" (3 mm – 10 mm) in diameter
Smell	Slight or no odor
Pain threshold	Not applicable
pH	Not applicable
Melting point /Freezing point	160 ~ 205°C (320 ~ 401°F)/No data available
Boiling point	None
Flash point	No data available
Evaporation rate	No data available
Inflammability	It will ignite when exposed to direct flame, but will not burn easily.
Upper/lower limit of flammability or explosiveness	Non-explosive
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.89 – 1.30
Solubility	Not soluble
Partition coefficient n-octanol/water	No data available
Autoignition temperature	>280°C (>536°F), ASTM E659
Decomposition temperature	No data available
Goo	Not applicable
Molecular weight	Not applicable

Note: The above physical property data 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 by strong oxidizing agents such as nitric acid, sulfuric acid, halogens, hydrogen peroxide and chlorinating agents.

10.3 Hazardous polymerization: Not likely under recommended storage conditions.

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

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10.5 Materials to avoid: May burn or react violently with fluorine/oxygen mixtures containing 50~100% fluorine.

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

SECTION 11. Toxicological information

11.1 Main route(s) of exposure: Contact with eyes and skin.

11.2 Potential health effects:

11.2.1 Eye contact: May cause irritation by mechanical abrasion.

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

11.2.3 Inhalation: Not a likely route of exposure. Process fumes may cause irritation.

11.2.4 Ingestion: May pose a choking hazard if swallowed.

11.3 Immediate effects: Exposure during handling and processing may 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 to the fumes and dusts that may result from its handling and processing.

11.5 Acute toxicity:

Component	Toxicity measured
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)

11.6 Carcinogenicity: OSHA, IARC and NTP have listed carbon black (a pigment used in dark colors) and quartz (crystalline silica, naturally present 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 the recommended processing conditions.

11.7 Reproductive toxicity: Not classified.

11.8 Aggravated medical conditions: There are no known medical conditions that may be aggravated by exposure to this product. However, certain sensitive individuals with respiratory problems may be affected by exposure to components of processing emissions.

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SECTION 12. Ecological information

12.1 Ecotoxicity: There is no data available on 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 may ingest the pellets which may clog their intestinal tracts.

12.2 Persistence and degradability: This material is generally inert and insoluble and is not expected to have any adverse effects on the environment. This material can deteriorate by a variety of mechanisms, including photo-oxidative and thermo-oxidative degradation. Photodegraded polymers also biodegrade more readily.

12.3 Bioaccumulation potential:No data available

12.4 Mobility in soil:No data available

12.5 Other adverse effects:No data available

SECTION 13. Disposal considerations

13.1 Disposal of the product:All recovered material must be packaged, labeled, transported, and disposed of or recovered in accordance with applicable laws and regulations and in accordance with good engineering practices. Recover material whenever possible.

SECTION 14. Transport information

This product is NOT regulated as a hazardous material/dangerous good 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 IBC Code (IBC):**None.

Regulation in the USA:

- **According to the DOT:**Not regulated for transport.
- **According to IMDG:**Not regulated for transport.
- **According to 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 observed or followed:**None.

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SECTION 15. Regulatory information

15.1 United States

TITLE III OF SARA (Superfund Amendments and Reauthorization Act)*	
Fire	No
Pressure	No
Reactivity	No
Sharp	No
Chronic	No
302/304	This product does not contain chemicals regulated by 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 on SARA 313.

*Title III Notes: This product does not contain SARA "toxic chemicals" above threshold levels.

15.2 International regulation

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

Country	List of notifications
Australia	Integrated Accounting
Canada	DSL
Porcelain	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
USA	The Threat Control Act (TSCA)

ARTICLE 16. Other information

- **Prepared by:** Advanced Composites Mexicana, S.A. de C.V.
- **Review date:** August 1, 2023.

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

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