

Aemion+ Safety Data Sheet (SDS)

FM-7008-D

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Revision: D	Prepared By: Dave Edwards	Effective Date: February 11, 2021
	Approved By: Tim Peckham	

This document is reviewed to ensure its continuing relevance to the systems and process that it describes.

Revision History:

Revision	Date	Description of Changes	Approved By
A	Jan 20, 2020	Initial Draft	Tim Peckham
B	Feb 27, 2020	Modified Regulatory Information Section	Tim Peckham
C	June 5, 2020	Change Product Name, Brand to Aemion+ and Product Code to AP2 to be consistent with quotes	Tim Peckham
D	Feb 11, 2021	Clarified Handling & Storage section.	Tim Peckham

1 – Product and Company Information

Product Name: Aemion+™ (AP2)
Product Brand: Aemion+™ Ionomer
Product Use: For research & development purposes only
Product Code: AP2

Company Information:

Ionomr Innovations Inc.
2386 East Mall
Unit 111
Vancouver, BC V6T 1Z8

2 – Hazard Identification**GHS Classifications:**

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements:

- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Skin: May be harmful if absorbed through the skin. May cause skin irritation.
- Eyes: May cause eye irritation.
- Ingestion: May be harmful if swallowed.

3 – Composition/Information on Ingredients

This is a polymeric material. All constituents are encapsulated within the polymer system and therefore presents no likelihood of exposure under normal conditions of processing and handling.

4 – First Aid Measures

Eyes: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Skin: No health risks are associated with skin contact at room temperature. Wash off with soap and plenty of water.

Inhalation: If dust from the material is inhaled, remove to fresh air.

Ingestion: Rinse mouth with water. Seek medical attention.

5 – Firefighting Measures

Conditions of flammability:

Not flammable or combustible. Material will not burn under normal conditions.

Suitable extinguishing media:

Use water spray, dry chemical or carbon dioxide. Material will not burn under normal conditions, so use media appropriate to surrounding materials.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products:

Possible hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides, hydrogen cyanide, hydrogen iodide.

Explosion data – sensitivity to mechanical impact:

No data available.

Explosion data – sensitivity to static discharge:

No data available.

6 – Accidental Release Measures

Personal precautions:

Avoid dust formation. Avoid breathing vapours, mist and aerosols.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment:

Vacuum or sweep up and shovel. Keep in suitable, closed containers for disposal.

7 – Handling and Storage

Precautions for safe handling:

Personal hygiene such as washing the hands and face immediately after working with this material and before eating is recommended.

Precautions for safe storage:

Keep containers tightly closed and store in a dry, ventilated space.

8 – Exposure Control/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Particulates	10 mg/m ³	15 mg/m ³ – Total 5 mg/m ³ - Respirable	Not Determined

Personal protective equipment:**Engineering Measures:**

Provide local exhaust ventilation to keep airborne particulate concentrations below 15 mg/m³, the OSHA limit for nuisance dusts.

Personal Protective Equipment: Eyes/Face

Safety glasses with side shields.

Personal Protective Equipment: Skin

Protective clothing such as gloves, and long sleeves or laboratory coat should be worn.

Personal Protective Equipment: Respiratory

If levels are above published OELs, then a NIOSH approved respirator.

Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact and minimizing inhalation of dust, vapors or mist.

9 – Physical and Chemical Properties

Appearance and Odor	Beige to brown powder with slight odor
Odor Threshold	No Information Available
Specific Gravity (Relative Density)	1.25-1.35
Solubility in Water	Insoluble
VOC Content (%)	<1
pH	No data available
Melting Point/Freezing Point	Infusible
Vapor Pressure	No data available
Vapor Density	No data available
Evaporation Rate	No data available
Boiling Point	No data available
Flammability	Non-combustible
Flash Point	No data available
Explosion Data	LEL – No data available
UEL – No data available	
Auto ignition Point	No data available
Partition Coefficient: n-octanol/water	No data available
Decomposition Temperature	> 572° F
Viscosity	No data available

10 – Stability and Reactivity

Reactivity: None.

Chemical stability: Stable under recommended storage conditions. Not susceptible to hazardous polymerization.

Conditions to avoid: Heating to temperatures above 572° F.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Possible Hazardous decomposition products formed under fire conditions include carbon oxides, nitrogen oxides (NO_x), hydrogen cyanide, and hydrogen iodide.

11 – Toxicological Information

Signs and Symptoms of Overexposure: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness and swelling. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Aggravated Medical: None.

Acute Effects: Non-toxic.

Skin Corrosion/Irritation: Not irritating to the skin.

Serious Eye Damage/Irritation: Particulates can be mechanically irritating to the eyes.

Ingestion: None.

Inhalation: Inhalation of particulates may produce respiratory tract irritation.

Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Chronic Effects:

Germ Cell Mutagenicity: Not expected to be a germ cell mutagen.

Carcinogenicity: Not classifiable as carcinogen to humans (group 3 IARC).

Reproductive Toxicity: There aren't known reproductive toxicity effects.

STOT-single Exposure: At dust form, may cause respiratory irritation with cough and sneezing.

STOT –multiple Exposure: There aren't known repeated exposure effects.

Aspiration Hazard: No data available. Not expected to be an aspiration hazard.

Primary Route of Entry: Inhalation of particulates.

12 – Ecological Information

Ecotoxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

13 – Disposal Considerations

Dispose of in accordance with federal, state and local regulations.

14 – Transport Information

US Department of Transportation Classification (49CFR)

Not classified as hazardous for transport.

15 – Regulatory Information**SARA Section 302 & 304:**

No chemicals

SARA Section 313:

No chemicals

TSCA:

This product is presently not listed on the TSCA inventory and should be used for research and development purposes only as specified in 40 C.F.R. § 720.36.

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