



RS 710 (AFCO 8772)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 3/15/2016

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: RS 710 (AFCO 8772)

Product Code: AFCO 8772

Intended Use of the Product

Use of the Substance/Mixture: Flocculation Agent.

Name, Address, and Telephone of the Responsible Party

Company

Alex C. Fergusson, LLC.
800 Development Avenue
Chambersburg, PA 17201
T 800-345-1329
www.afcocare.com

Emergency Telephone Number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Aquatic Acute 2 H401

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) : None

Signal Word (GHS-US) : None

Hazard Statements (GHS-US) : H401 - Toxic to aquatic life

Precautionary Statements (GHS-US) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Slippery when wet.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Ethanaminium, N,N N-trimethyl-2-((1-oxo-2-propenyl) oxy)-, chloride, polymer with 2-propenamide	(CAS No) 69418-26-4	≥ 85.0	NA
Adipic acid	(CAS No) 124-04-9	1.0 - 5.0	NA

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Remove contaminated clothing. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Skin Contact: Remove contaminated clothing. Drench affected area with water for several minutes. If irritation persists, get medical advice/attention.

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Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Ingestion: Rinse mouth then drink plenty of water. Do NOT induce vomiting. Immediately get medical advice/attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: No significant symptoms are expected due to non classification of the product. No hazard is expected under intended use and appropriate handling.

Inhalation: May cause some respiratory irritation if dust is inhaled.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation..

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, foam, dry powder.

Unsuitable Extinguishing Media: Water jet. Do not use a heavy water stream. Use of heavy stream of water may spread fire. Carbon dioxide.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable. May emit harmful vapors.

Explosion Hazard: Product is not explosive as packaged however the build-up of dust can lead to a risk of dust explosions.

Reactivity: When heated to decomposition, emits harmful vapours. Very slippery when wet.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: N

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen Oxides (NO_x)

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Avoid the formation of dust build up (danger of dust explosion). Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Forms slippery surfaces with water. Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: NA

Environmental Precautions

Do not discharge into drains/surface waters/groundwater. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

Small Amounts: Pick up with suitable appliance and dispose of.

Large Amounts: Contain with dust binding material and dispose of. Avoid raising dust.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Forms slippery surfaces with water.

Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Nonsparking tools should be used. Comply with applicable regulations.

Storage Conditions: Store in a well-ventilated, dry, cool place. Keep container tightly closed. Keep/Store away from sources of ignition and extreme heat.

Incompatible Materials: Strong oxidizers. Strong acids. Strong bases.

Specific End Use(s): Flocculation Agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Adipic acid (124-04-9)		
USA ACGIH	ACGIH Ceiling TLV (mg/m ³)	5 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protective Equipment: Light protective clothing. Protective goggles. Gloves. Respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles.

Skin and Body Protection: Light protective clothing.

Respiratory Protection: Wear a NIOSH-certified organic vapor/particulate respirator.

Thermal Hazard Protection: Wear suitable protective clothing.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Off-white powder
Odor	: None

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Odor Threshold	: Not available
pH (1%)	: 3.5-4.5
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: 100 °C(212 °F)
Flash Point	: None
Auto-ignition Temperature	: None
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not highly flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Bulk Density	: Approx. 700kg/m ³
Solubility	: Water: forms a viscous solution
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reaction if stored and handled as prescribed/indicated. No corrosive effects on metal. Not fire-propagating.

Chemical Stability: Stable if stored and handled as indicated.

Possibility of Hazardous Reactions: The product is not a dust explosion risk as supplied, however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to Avoid: Extreme temperatures. Avoid humidity. Avoid electro-static discharge. Avoid dust formation.

Incompatible Materials: Strong oxidizers. Strong acids. Strong bases.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂), Nitrogen Oxides(NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified. **pH(1%):** 3.5-4.5

Serious Eye Damage/Irritation: Not classified. **pH(1%):** 3.5-4.5

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause slight respiratory irritation.

Symptoms/Injuries After Skin Contact: None.

Symptoms/Injuries After Eye Contact: Causes eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data: Not available

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life.

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LC50 Fish 1	10 - 10 mg/l (Exposure time: 96 h[Static])
EC50 Daphnia 1	10 - 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Ethanaminium, N,N N-trimethyl-2-((1-oxo-2-propenyl) oxy)-, chloride, polymer with 2-propenamide (69418-26-4)	
LC50 Fish 1	10 - 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	10 - 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability Not readily biodegradable (by OECD criteria). The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

Bioaccumulative Potential Based on its structural properties, the polymer is not biologically available. Accumulation in organism is not to be expected

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

RCRA: Not a hazardous waste under RCRA (40 CFR 261).

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT Not regulated for transport

14.2 In Accordance with IMDG Not regulated for transport

14.3 In Accordance with IATA Not regulated for transport

14.4 In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA Section 311/312 Hazard Classes	Not hazardous
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All components are either listed or exempt from being listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations

Adipic acid (124-04-9)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - RTK (Right to Know) list	

Canadian Regulations

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WHMIS Classification	Not classified
Adipic acid(124-04-9)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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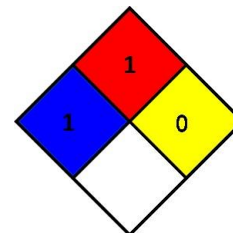
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 3/15/2016
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard Category 2
H401	Toxic to aquatic life

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard : 1 - Must be preheated before ignition can occur.
NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1 Slight Hazard- Irritation or minor reversible injury possible
Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2