RS 630 (AFCO 8761)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 11/13/2023 Version: 1.1

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: RS 630

Product Code: AFCO 8761

Intended Use of the Product

Use of the Substance/Mixture: Processing aid for industrial applications.

Name, Address, and Telephone of the Responsible Party

Company

AFCO

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) : Not classified.

Label Elements

GHS-US Labeling : No labelling required.

Signal Word (GHS-US) : None.

Hazard Statements (GHS-US) : None.

Precautionary Statements (GHS-US) : None.

Other Hazards

Other Hazards: Aqueous solutions or powders that become wet render surfaces extremely slippery.

Unknown Acute Toxicity (GHS-US) Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Not applicable, this product is a mixture.

Mixture

Name of Hazardous Ingredients	Product identifier	% (w/w)	Classification (GHS-US)
Sulfamic acid	(CAS No) 5329-14-6	≤ 2.5	Eye Irrit. 2A, H319
Adipic acid	(CAS No) 124-04-9	≤ 2.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Skin Contact: Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids. Get medical attention.

Ingestion: Rinse mouth. If conscious, give the victim plenty of water to drink. Induce vomiting, but only if victim is fully conscious.

Most Important Symptoms and Effects Both Acute and Delayed

General: Powder can cause localised skin irritation in folds of the skin or under tight clothing. Contact with dust can cause mechanical irritation or drying of the skin.

Indication of Any Immediate Medical Attention and Special Treatment Needed

None.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water, water spray, foam, dry powder. Carbon dioxide. Warning! Aqueous solutions or powders that become wet render surfaces extremely slippery.

Unsuitable Extinguishing Media: None.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: When heated to decomposition, emits harmful vapours. Spilled product is slippery underfoot. Very slippery when wet.

Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Nitrogen Oxides (NO_x). Hydrogen chloride gas. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Other information: Aqueous solutions or powders that become wet render surfaces extremely slippery.

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 contact with skin, eyes, or clothing. Avoid dust formation. Avoid breathing dust. Aqueous solutions or powders that become wet render surfaces extremely slippery.

For Non-Emergency Personnel

Protective Equipment: Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

Small Spills: Do not flush with water. Clean up promptly by sweeping or vacuum.

Large Spills: Do not flush with water. Prevent unauthorized access. Sweep up and shovel into suitable containers for disposal.

Residues: Sweep up to prevent slip hazard. After cleaning, flush with traces of water.

Reference to Other Sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Wash hands before breaks and at the end of workday.

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 no 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: Comply with applicable regulations.

Storage Conditions: Keep in a dry cool place.

Incompatible Materials: Oxidizing agents.

Specific End Use(s): Processing aid for industrial applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Adipic acid (124-04-9)		
USA ACGIH	ACGIH Ceiling TLV (mg/m³)	5 mg/m³ (8 hours)

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. Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Personal Protective Equipment: Protective clothing. Protective goggles. Gloves.

Materials for Protective Clothing: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hand Protection: PVC or other plastic material gloves.

Eye Protection: Safety glasses with side-shields. Do not wear contact lenses where this product is used.

Skin and Body Protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Respiratory Protection: Dust safety masks recommended where working powder concentration is more than 10 mg/m³.

Additional Advice: Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls: Do not allow uncontrolled discharge of product into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	White, granular
Odor	:	None
Odor Threshold	:	Not available
pH (0.5%)	:	2.5 - 4.5
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	>100°C (212°F)
Freezing Point	:	>100°C (212°F)
Boiling Point	:	Not applicable
Flash Point	:	None
Auto-ignition Temperature	:	>200°C (392°F)
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not combustible
Lower Flammable Limit	:	Not expected to create explosive atmospheres
Upper Flammable Limit	:	Not expected to create explosive atmospheres
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C	:	Not applicable
Relative Density	:	0.6 - 0.9
Solubility	:	Soluble in water
Partition coefficient: n-octanol/water	:	<0
Viscosity	:	See Technical Bulletin
Kinematic Viscosity	:	Not data available
Explosive Properties	:	Not expected to be explosive based on the chemical structure.
Oxidizing Properties	:	Not expected to be oxidizing based on the chemical structure.
Particle Characteristics	:	Not data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous polymerisation does not occur.

Chemical Stability: Stable at standard temperature and pressure.

Possibility of Hazardous Reactions: Oxidizing agents may cause exothermic reactions.

Conditions to Avoid: None known.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: Carbon oxides (CO, CO_2). Nitrogen Oxides (NO_x). Hydrogen chloride gas. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data:

RS 630 (AFCO 8761)	
LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rat	>5000 mg/kg

Skin Corrosion/Irritation: Not irritating.

Serious Eye Damage/Irritation: Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjuctivae.

Germ Cell Mutagenicity: Not mutagenic.

Teratogenicity: Not available.

Carcinogenicity: Not carcinogenic.

Specific Target Organ Toxicity (Repeated Exposure): No known effect.

Reproductive Toxicity: Not toxic for reproduction.

Specific Target Organ Toxicity (Single Exposure): No known effects.

Aspiration Hazard: No hazards resulting from the material as supplied.

Symptoms/Injuries After Inhalation: The product is not expected to be toxic by inhalation.

Symptoms/Injuries After Skin Contact: Causes slight skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight 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:

Sulfamic acid (5329-14-6)	
LD50 Oral Rat	2065 - 2140 mg/kg
NOAEL Dermal Rat	2000 mg/kg (OECD 402)
Adipic acid (124-04-9)	
LD50 Oral Rat	5560 mg/kg (OECD 401)
LD0 Dermal Rabit	>= 3176 mg/kg
LC0 Inhalation Rat	>7.7 mg/L/4 hours (OECD 403)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not established.

RS 630 (AFCO 8761)	
LC50 Fish 1 (Estimated)	10 - 100 mg/l (Exposure time: 96 h) (OECD 203)
EC50 Daphnia 1 (Estimated)	>50 mg/l (Exposure time: 48 h - Species: Daphnia magna) (OECD 202)
Adipic acid (124-04-9)	
LC50 Fish 1	≥1000 mg/l (Exposure time: 96 h - Species Danio rerio)
EC50 Daphnia 1	46 mg/l (Exposure time: 48 h - Species: Daphnia magna) (OECD 202)
IC50 Algae	59 mg/l (Exposure time: 72 h - Species: Selenastrum capricornutum) (OECD 201)
NOEC Daphnia 2	6.3 mg/l (Exposure time: 21 d - Species: Daphnia magna) (OECD 211)
EC50	4747 mg/l (Exposure time: 3 h - Species: activated sludge) (OECD 209)

Sulfamic acid (5329-14-6)	
LC50 Fish 1	70.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas) (OECD 203)
EC50 Daphnia 1	71.6 mg/l (Exposure time: 48 h - Species: Daphnia magna) (OECD 202)
IC50 Algae	48 mg/l (Exposure time: 72 h - Species: Selenastrum capricornutum) (OECD 201)
NOEC Fish 2	60 mg/l (Exposure time: 34 d - Species: Danio rerio) (OECD 210)

Persistence and Degradability

RS 630 (AFCO 8761)	
Degradation	Based on the degradability data of the components, this product is expected to be readily (bio)degradable according to OECD criteria.
Hydrolysis	At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
Photolysis	No data available.
Adipic acid (124-04-9)	
Degradation	Readily biodegradable. >70% / 28 days (OECD 301 D)
Hydrolysis	Does not hydrolyse.
Photolysis	Half-life (indirect photolysis): = 2.9 days
Sulfamic acid (5329-14-6)	
Degradation	Not relevant (inorganic).
Hydrolysis	Does not hydrolyse.
Photolysis	No data available.

Bioaccumulative Potential

RS 630 (AFCO 8761)	
Bioaccumulative Potential	The product is not expected to bioaccumulate.
Partition co-efficient (Log Pow)	<0
Bioconcentration factor (BCF)	~0
Adipic acid (124-04-9)	
Partition co-efficient (Log Pow)	0.093 @ 25°C, (**pH** 3.3)
Bioconcentration factor (BCF)	~0
Sulfamic acid (5329-14-6)	
Partition co-efficient (Log Pow)	-4.34 @ 20°C
Bioconcentration factor (BCF)	~0

Mobility in Soil No data available.

Other Adverse Effects

Other Information: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste - Residues/Unused Products: Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated Packaging: Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling : In accordance with local and national regulations.

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

RS 630 (AFCO 8761)

SARA Section 311/312 Hazard Classes	N/A.

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All components are either listed or exempt from being listed on the United States TSCA (Toxic Substances Control Act) inventory.

Clean Water Act	
Section 311 Hazardous Substances (40 CFR 117.3) - RQ	Contains one or more of the listed substances.

CERCLA	
Hazardous Substances List (40 CFR 302.4) - RQ	Contains one or more of the listed substances.

US State Regulations

RS 630 (AFCO 8761)	
U.S. - California Proposition 65 Information	WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

Canadian Regulations

Sulfamic acid (5329-14-6)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Adipic acid (124-04-9)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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.

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

Revision date : 11/13/2023

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

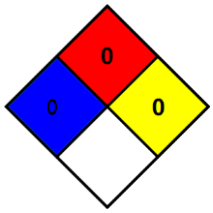
GHS Full Text Phrases

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation

NFPA Health Hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 0 - Minimal Hazard - No significant risk to health.

Flammability : 0 - Minimal Hazard.

Physical : 0 - Minimal Hazard.

Party Responsible for the Preparation of This Document

AFCO
800 Development Avenue
Chambersburg, PA 17201
T: 800-345-1329

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.