



Safety Data Sheet

Aries 7389

Section 1. Identification

Product Identifier	Aries 7389		
Synonyms	Flocculant		
Manufacturer Stock Numbers	N/A		
Recommended use	Water treatment, process aid		
Uses advised against	N/A		
Manufacturer Contact Address	Aries Chemical Incorporated PO BOX 519 Beaver Falls, NY, 13305		
	Phone	Emergency Phone	Fax
	(315) 346-1489	(800) 535-5053 INFOTRAC	(315) 346-1658
	Email	Website	
	aries@arieschem.com	www.arieschem.com	

Section 2. Hazards Identification

Classification	Final product is non-hazardous. - Category N/A
Signal Word	
Pictogram	
Hazard Statements	Final product is not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
Precautionary Statements	
Response	IF IN EYES: Rinse eyes with water for 15 minutes, lifting eyelids often. Seek medical attention in cases of persistent eye irritation. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Immediately remove contaminated clothing and flush skin thoroughly with water. Wash clothing before reuse. Seek medical attention if irritation persists. IF SWALLOWED: Drink water to dilute. Do NOT induce vomiting. Seek medical attention.
Prevention	Avoid contact with eyes, skin and clothing. Avoid release to the environment. Do not cut, weld or grind near containers. Take any precaution to avoid mixing with oxidizing agents as it may cause exothermic reactions.

	Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Storage	Store away from sources of heat and ignition. Store in a cool, dry place. Do not allow to freeze as it will affect the physical condition and may damage the material. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.
Disposal	Dispose of contents/containers in accordance with local, state and federal regulations.
General	Spills produce extremely slippery surfaces.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
127087-87-0	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	<2.5%
64742-47-8	Distillates, petroleum, hydrotreated light	20% - 30%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

First Aid Ingestion	If ingested, drink plenty of water. Do NOT induce vomiting. Consult a physician if necessary.
First Aid Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
First Aid Skin	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
First Aid Eye	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water, water spray, foam, carbon dioxide or dry chemical
Unsuitable Extinguishing Media	None known.
Fire fighting instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Suitable extinguishing media	Cool exposed containers with water spray after extinguishing fire.
Specific hazards	Spilled product may cause slippery surface and fall hazard.
Additional Information	Unusual fire and explosion hazards: Thermal decomposition may release oxides

of carbon and nitrogen, ammonia, hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Section 6. Accidental Release Measures

Disposal Dispose of in accordance with local, state and federal regulations.
Additional Information Spills are extremely slippery. Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities, clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

Section 7. Handling and Storage

Handling Wear appropriate PPE when handling, including an approved respirator if mist or vapor levels exceed exposure limits. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Wash thoroughly after handling. Wash hands before eating, drinking or smoking. Do NOT handle, store or open near an open flame, sources of heat or sources of ignition. Do not cut, grind or weld on or near container. Contaminated surfaces will be extremely slippery. Handle in accordance with good industrial hygiene and safety practice.
Storage Store in a cool dry place. Keep from freezing. Keep away from sources of ignition. Store away from heat. Emergency eye wash and safety shower should be located nearby.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	N/A	N/A	N/A
	Distillates, petroleum, hydrotreated light	1200 mg/m3	1200 mg/m3	N/A
Personal Protective Equipment	Goggles, Gloves, Apron			
Engineering controls	Adequate ventilation, eye-wash station and emergency shower.			
Eye protection	Tightly fitting safety goggles.			
Skin protection	Wear protective gloves and protective clothing, such as long sleeve shirt, lab coat, pants, boots.			
Respiratory protection	Use NIOSH approved respirator in accordance with OSHA respiratory protection requirements if airborne concentrations exceed published exposure limits (29 CFR 1910.134).			
Environmental Exposure Controls	Do not allow the product to be released into the environment.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Milky/viscous
Odor	Aliphatic
Odor Threshold	No data available.
Solubility	Completely miscible

Partition coefficient Water/n-octanol	Not applicable
VOC%	N/A
Viscosity	>20.5 mm ² /s @ 40 C
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Does not flash
FP Method	N/A
Ph	2.5 - 6 @ 5 g/L
Melting Point	<5 C
Boiling Point	>100 C
Boiling Range	No data available
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	Not applicable
Decomposition Temperature	>150 C
Auto-ignition Temperature	Not applicable
Vapor Pressure	2.3 kPa @ 20 C
Vapor Density	No data available

Additional Information Specific gravity = 1.0 - 1.1

Section 10. Stability and Reactivity

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Hazardous polymerization will not occur.
Additional Information	-Conditions to avoid: Protect from frost, heat and sunlight. -Materials to avoid: Oxizing agents may cause exothermic reactions. -Hazardous decomposition products: Carbon and nitrogen oxides, ammonia, hydrogen chloride gas. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Section 11. Toxicological Information

Likely routes of exposure	Skin, Eye
Eye contact	May cause eye irritation.
Skin corrosion/irritation	Not classified.
Ingestion	No information available.
Inhalation	None known.
Aspiration hazard	Not classified.
Sensitization	Not classified.
Carcinogenicity	No components have been identified as carcinogenic by OSHA, NTP or IARC.
Embryotoxicity	No information available.
Mutagenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity-repeated exposure	Not classified.

Additional Information

PRODUCT

- Acute oral toxicity: LD50/oral/rat > 5,000 mg/kg
- Acute dermal toxicity: LD50/dermal/rat > 5,000 mg/kg
- Acute inhalation toxicity: The product is not expected to be toxic by inhalation.

COMPONENTS

Distillates (petroleum), hydrotreated light

- Acute oral toxicity: LD50/oral/rat > 5,000 mg/kg (OECD 401)
- Acute dermal toxicity: LD50/dermal/rabbit > 5,000 mg/kg (OECD 402)
- Acute inhalation toxicity: LC50/inhalation/4hr/rat = 4,951 mg/m³ (OECD 403)

Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched (127087-87-0)

- Acute oral toxicity: LD50/oral/rat = 200-300 mg/kg
- Acute dermal toxicity: LD50/dermal/rabbit > 2,000 mg/kg
- Acute inhalation toxicity: No data available.

Section 12. Ecological Information

Bioaccumulative potential	This product is not expected to bioaccumulate.
Persistence and Degradation	Readily biodegradable.
Hydrolysis	At natural pHs (>6), the polymer degrades due to the hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
Mobility	No information available.
Additional Information	<ul style="list-style-type: none">-Acute toxicity to fish: LC50/Danio rerio/96hr = 10-100 mg/L (Estimated) (OECD 203)-Acute toxicity to invertebrates: EC50/Daphnia magna/48hrs = 10-100 mg/L (Estimated) (OECD 202)-Acute toxicity to algae: Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution, which invalidates the test.-Chronic toxicity to fish: No data available-Chronic toxicity to invertebrates: No data available

Section 13. Disposal

Disposal	Dispose of in accordance with local, state and federal regulations.
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Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not classified as dangerous in the meaning of transport regulations.
DOT Classification	N/A
Packing Group	N/A

Section 15. Regulatory Information

TSCA	The ingredients of this product are either listed on or exempt from listing on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.
SARA Section 313	Hazardous Component(s) subject to reporting under 40 CFR 372(SARA Title III, Sec. 313): None.
Additional Information	-OSHA Hazard Communication Status: Final product is not classified as hazardous under the criteria of the Federal

OSHA Hazard Communication Standard 29 CFR 1910.1200.
-California Proposition 65: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm: Acrylamide (79-06-1), <0.01% by wt.

Section 16. Other Information

Revision Date	9/21/2015
Version Number	1
HMIS	Health - 0; Flammability - 1; Reactivity - 0
NFPA	Health - 0; Flammability - 1; Reactivity - 0
HMIS and NFPA Rating Scale	Minimal - 0; Slight - 1; Moderate - 2; Serious - 3; Severe - 4
Reason for Revision	New format in accordance with GHS SDS guidelines.
Disclaimer	While Aries Chemical Inc. believes the data set forth herein is accurate as of the date hereof, Aries Chemical makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon of such data and is offered solely for your consideration, investigation and verification.