Safety Data Sheet

Section 1
Identification of the Substance and of the Supplier

1.1 Product Identifier

Product Name/Identification:	StarSource Masterbatch L-AN
Synonyms:	Anionic Polymer
Product Code:	MB-L-AN-670
Formula:	

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advises Against

Relevant Identified Uses:	Process aid for industrial applications
Uses Advised Against:	None known

1.3 Details of the Supplier of the SDS

Manufacturer/Supplier:	StarSource, LLC
Street Address:	3757 State Street 2A
City, State and Zip Code:	Santa Barbara, CA 93105
Customer Service Telephone:	916-663-3800

1.4 Emergency Telephone Number

Emergency Phone Number:	916-663-3800
Hours Available:	24/7

Section 2
Hazards Identification

2.1 Classification of the Substance

Spills produce extremely slippery surfaces. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Section 3
Composition/Information on Ingredients

Hazardous Components
Contains no reportable hazardous substances.

3.1 Substances
Not applicable, this product is a mixture.

3.2. Mixtures
This product is a mixture.

Section 4
First Aid Measures

4.1 Description of First Aid Measures

Inhalation:	Move to fresh air. No hazards which require special first aid measures
Skin Contact:	Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids for at least 15 minutes. Alternatively, rinse with Diphoterine® solution. In case of persistent eye irritation, consult a physician.
Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed
None under normal use.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed
Seek first aid or call a doctor or Poison Control Center if contact with eyes occurs and irritation remains after rinsing.

Section 5
Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media:	Dry chemical, carbon dioxide (CO_2), water spray
Unsuitable Extinguishing Media:	None.

5.2 Special Hazards Arising from the Substance or Mixture

Hazardous Decomposition Products:	Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3 Advice for Firefighters

Special Protective Equipment and Precautions for Firefighters:	Wear self-contained breathing apparatus and protective suit.

Section 6
Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions/Protective Equipment:	For personal protection see Section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Do not touch or walk-through spilled material. Spills produce extremely slippery surfaces.
Emergency procedures:	Use scooping, water spraying/flushing/misting or ventilated vacuum cleaning systems to clean up spills. Do not use pressurized air.

6.2 Environmental precautions

Environmental precautions:	Prevent spreading over a wide area (e.g., by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3 Methods and Material for Containment and Cleaning Up

Methods and materials for containment and cleaning up:	Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. After cleaning flush away traces with water.

See Sections 8 and 13 for additional information on exposure controls and disposal.

Section 7
Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with skin, eyes, and clothing. When preparing the working solution ensure that there is adequate ventilation. Do not breathe vapors or spray mist. When using, do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool place (2-35 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

Section 8
Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with known occupational exposure limit values. These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations, and ventilation.

8.2 Exposure Controls

Do not allow uncontrolled exposure in the environment.

8.2.1 Engineering Controls

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

8.2.2 Personal Protective Equipment (PPE)

Respiratory protection:	No personal respiratory protective equipment normally required.
Eye and face protection:	Safety glasses with side shields.
Hand and skin protection:	Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely. Rubber, PVC or other plastic gloves for hands.
Additional Advice:	Wash hands before breaks and at the end of workday. Wash hands before breaks and immediately after handling the product. Handle in accordance with good hygiene and safety practices.

Section 9
Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Property: Value	Property: Value
Appearance (physical state, color, etc.): Liquid, clear to slightly yellow.	**Upper/lower flammability or explosive limits:** Not applicable
Odor: None	**Vapor Pressure (Pa):** 2.3 kPa at 20 °C
Odor threshold: Not applicable	**Vapor Density:** 0.804 g/liter at 20 °C
pH (25 °C): 3 -7	**Specific gravity or relative density:** 1.0-1.2
Melting point/freezing point (°C): -5	**Water Solubility:** Completely miscible
Initial boiling point and boiling range (°C): (>)212 °F / 100 °C	**Partition coefficient: n-octane/water:** Not determined
Flash point (°C): Does not flash	**Auto ignition temperature (°C):** Not applicable
Evaporation rate: Not determined	**Decomposition temperature (°C):** > 150 °C
Flammability (solid, gas): Not combustible	**Viscosity:** Not determined

Section 10
Stability and Reactivity

10.1 Reactivity:	Stable under recommended storage conditions.
10.2 Chemical stability:	The material is stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Product will not undergo hazardous polymerization
10.4 Conditions to avoid:	Protect from frost, heat and sunlight.
10.5 Incompatible materials:	None known.
10. 6 Hazardous decomposition products:	Hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx) and hydrogen cyanide (hydrocyanic acid).

Section 11
Toxicological Information

11.1 Information on Toxicological Effects

Endpoint	Data
Acute oral toxicity	LD 50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	This product is not expected to be toxic by inhalation
Skin corrosion/irritation	Not irritating
Eye damage/irritation	May cause slight eye irritation
Sensitization	Not sensitizing to the skin. The results of testing on human volunteers (HIPT) showed this material to be non-sensitizing.
Chronic Toxicity	A one-year feeding study on dogs did not reveal adverse health effects. A one-year feeding study on rats did not reveal adverse health effects.

Other information	Not mutagenic. This substance is not expected to be carcinogenic or toxic for reproduction.

Section 12
Ecological Information

12.1 Toxicity

Fish	LC 50: >100 mg/l Exposure time: 96 h *Species: Danio rerio (zebra fish)*
Daphnia and other aquatic organisms	EC 50: >100 mg/l Exposure time: 48 h *Species: Water flea (Daphnia magna)* Method: OECD Test Guideline 202

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 tests.

12.2 Persistence and Degradability

Not readily biodegradable

12.3 Bio accumulative Potential

Does not bioaccumulate.

12.4 Mobility in Soil

Exposure to soil is not to be expected.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other Adverse Effects

None known.

Section 13
Disposal Considerations

Rinse empty containers with water and use the rinse-water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.

Section 14
Transport Information

Regulatory entity: U.S. DOT	Shipping Name:	Not Regulated
	Hazard Class:	Not Regulated
	ID Number:	Not Regulated
	Packing Group:	Not Regulated

Section 15
Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Information on the Product as Supplied:

TSCA Chemical Substances Inventory:

USA (TSCA): All components of this product are either listed on the U.S. Toxic substance control act (TSCA) inventory of chemicals or are otherwise compliant with the TSCA regulations.

US SARA Reporting Requirements
SARA (Section 311/312) hazard class:
Not concerned.

SARA Title III Sections:
Section 302(TPQ) - Reportable Quantity:
Not concerned.

Section 304 - Reportable Quantity:
Not concerned.

Section 313 (De minimis concentration):
Not concerned.

Clean Water Act
Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity:
Not concerned.

Clean Air Act
Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity:
Not concerned.

CERCLA
Hazardous Substances List (40 GFR 302.4) - Reportable Quantity:
Not concerned.

RCRA Status:

Not RCRA hazardous.

California Proposition 65 Information:
Not concerned.

Section 16
Other Information, Including Date of Preparation or Last Revision

16.1 Other Information

4. Severe Hazard
3. Serious Hazard
2. Moderate Hazard
1. Slight Hazard
0. Minimal Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet:

Acronyms
STOT = Specific target organ toxicity

Training advice:

Do not handle until all safety precautions have been read and understood.

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such mat rial used in combination with any other materials or in any process, unless specified in the text.

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