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**1. IDENTIFICATION**

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<b>Product Name</b>	AERLITE™
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Protein/Synthetic concrete foam concentrate
<b>Restrictions on Use</b>	None
<b>Company Identification</b>	Aerix Industries 7020 Snowdrift Road Allentown, PA 18106
<b>Customer Information Number</b>	(610) 398 7833
<b>Emergency Telephone Number</b>	(888) 235-5015
<b>Issue Date</b>	September 14, 2015
<b>Supersedes Date</b>	This is the first issue.
<i>Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)</i>	

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**

Flammable Liquid - Category 3

Eye Damage/Irritation - Category 1

Skin Corrosion/Irritation - Category 2

Acute Hazards to the Aquatic Environment - Category 2 (OSHA non-mandatory)

**Label Elements**

Hazard Symbols



Signal Word: Danger

**Hazard Statements**

Flammable liquid and vapor.

Causes serious eye damage.

Causes skin irritation.

Toxic to aquatic life.

**Precautionary Statements****Prevention**

Wash hands thoroughly after handling.

Wear eye protection, face protection and protective gloves.

Avoid release to the environment.

Keep away from heat, sparks, open flame, hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, ventilating, and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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**2. HAZARD IDENTIFICATION**

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**Response**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

If on skin (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

In case of fire: Use extinguishing measures that are appropriate to local circumstances.

**Storage**

Store in a well-ventilated place.

Keep cool.

**Disposal**

Dispose of contents/container in accordance with local regulation.

**Other Hazards**

None identified.

**Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 40 - 50%

Acute dermal toxicity 40 - 50%

Acute inhalation toxicity 45 - 55%

Acute aquatic toxicity 50 - 60%

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture.

Component	CAS Number	Concentration
Water	7732-18-5	40 - 50%
Anionic Surfactant	Proprietary	10 - 20%
Amphoteric Surfactant	Proprietary	5 - 15%
Detergent	Proprietary	1 - 5%
Isopropanol	67-63-0	1 - 5%
Hexylene Glycol	107-41-5	1 - 5%
Glycerin	56-81-5	<2%
Ferrous Sulfate	7720-78-7	0.1 - <1.0%
Zinc Oxide	1314-13-2	0.1 - <1.0%

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**4. FIRST- AID MEASURES**

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**Description of necessary first-aid measures****Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

**Ingestion**

Dilute by drinking large quantities of water and obtain medical attention.

**Inhalation**

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

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**4. FIRST- AID MEASURES**

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**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed****Notes to Physicians**

Treat symptomatically.

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**5. FIRE - FIGHTING MEASURES**

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**Suitable Extinguishing Media**

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

**Specific hazards arising from the chemical**

This product will foam when mixed with water. May release hazardous vapors during a fire.

**Special Protective Actions for Fire-Fighters**

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing. Prevent skin and eye contact. Eliminate all sources of ignition. Use non-sparking tools for flammable materials.

**Environmental Precautions**

Prevent large quantities of the material from entering drains or watercourses.

**Methods and materials for containment and cleaning up**

Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wear appropriate protective clothing. Prevent skin and eye contact.

**Conditions for safe storage**

Store in original containers between 35°F and 120°F (2°C and 49°C). Store away from sources of heat or ignition. Storage area should be: cool - dry - well ventilated - away from incompatible materials - out of direct sunlight - away from sources of ignition (heat, sparks, flames, and pilot lights)

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Isopropanol**

ACGIH: TLV 200 ppm, 8hr; 15 min STEL 400 ppm

OSHA Z-1 PEL: 400 ppm (980 mg/m<sup>3</sup>)

**Glycerin (Mist)**

ACGIH: TLV 10 mg/m<sup>3</sup> 8h TWA.

OSHA: PEL 5 mg/m<sup>3</sup> 8h TWA respirable fraction

15mg/m<sup>3</sup> 8h TWA total dust

**Hexylene Glycol**

ACGIH: TLV 25 ppm, 8hr, 121 mg/m<sup>3</sup> Ceiling

**Zinc Oxide**

ACGIH: TLV 2 mg/m<sup>3</sup> 8h TWA, respirable fraction, 15 min STEL 10 mg/m<sup>3</sup>

OSHA: Z-1 PEL 5 mg/m<sup>3</sup>, zinc oxide fume

OSHA: Z-1 PEL 5 mg/m<sup>3</sup>, respirable fraction

OSHA: Z-1 PEL 15 mg/m<sup>3</sup>, total dust

**Ferrous Sulfate as Iron Salts, Soluble, as Fe**

ACGIH: TLV 1 mg/m<sup>3</sup> 8h TWA

OSHA: PEL 1 mg/m<sup>3</sup> 8h TWA

**Appropriate engineering controls**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Individual protection measures****Respiratory Protection**

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

**Skin Protection**

Rubber or PVC gloves

**Eye/Face Protection**

Chemical goggles, face shield or safety glasses with side shields.

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance****Physical State**

Liquid

**Color**

Brown

**Odor**

Bland

**Odor Threshold**

No data available

**pH**

7.1

**Specific Gravity**

1.06

**Boiling Range/Point (°C/F)**

No data available

**Freezing Point (°C/F)**

-17/2

**Flash Point (°C/F)**

53/128 (TAG closed cup)

**Vapor Pressure**

No data available

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air = 1)</b>	Not applicable
<b>VOC (%)</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Viscosity</b>	No data available
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	Not applicable
<b>Lower explosive limit</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

No data available.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Contact with incompatible materials

**Incompatible Materials**

Strong acids - strong bases - strong oxidizers - strong reducing agents

**Hazardous Decomposition Products**

Oxides of carbon – sulfur oxides – low molecular weight hydrocarbons

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**Detergent

Oral LD50 (rat) >2000 mg/kg

Dermal LD5 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) > 5.2 mg/l

**Specific Target Organ Toxicity (STOT) – single exposure**

No relevant studies identified.

**Specific Target Organ Toxicity (STOT) – repeat exposure**

No relevant studies identified.

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**11. TOXICOLOGICAL INFORMATION**

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**Serious Eye damage/Irritation**

Anionic surfactant: Causes serious eye damage. (60% solution)

Detergent: Causes eye irritation (5-38% solution).

Amphoteric surfactant: Causes serious eye damage. (30% solution)

Isopropanol: Causes serious eye irritation (animal studies.)

Hexylene Glycol: Causes serious eye irritation.

**Skin Corrosion/Irritation**

Anionic surfactant: Causes skin irritation. (60% solution)

Detergent: Causes skin irritation. (5-38% solution).

Hexylene Glycol: Causes skin irritation

**Respiratory or Skin Sensitization**

Available data indicates this product is not expected to cause skin sensitization.

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

No relevant studies identified.

**Reproductive Toxicity**

No relevant studies identified.

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Anionic Surfactant

LC50 Fish 0.7 - 7 mg/l 96hr

EC50 Crustacea 1.9mg/6 48 hr

Zinc Oxide

LC50 Rainbow trout, 96h, 1.1 mg/l

EC50 Daphnia magna, 48h, 0.098 mg/l

Aquatic Chronic - Category 1, Very toxic to aquatic life with long lasting effects (ECHA classification)

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

This product, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.

Do not flush to waterways. Disposal should be made in accordance with local, state and federal regulations. Discharge into a biological sewer treatment facility may be done with prior approval. Low dosage flow rate or antifoaming agents acceptable to the treatment facility may be helpful. Specific concerns may be high BOD load and foaming tendency. Dilution will reduce BOD and COD factors proportionately.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None
<b>UN Number</b>	None
<b>UN Packaging Group</b>	None
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.
<b>Environmental Hazards</b>	Not a marine pollutant

**National Motor Freight Classification**

<b>Shipping Description</b>	Foam for Concrete
<b>NMFC Code</b>	Class 55

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

All components of this product are in compliance or are exempt from inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Canada DSL Inventory**

All ingredients in this product have been verified for listing on the Domestic Substance List (DSL) or are exempt from listing.

**SARA Title III Sect. 311/312 Categorization**

Immediate (Acute) Health Hazard, Fire Hazard

**SARA Title III Sect. 313**

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biochemical Oxygen Demand

CAS#: Chemical Abstracts Service Number

COD: Chemical Oxygen Demand

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: September 14, 2015

Replaces: This is the first issue.

Changes made: Updated to GHS classification.

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:**

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