
1. IDENTIFICATION

Product Name	ARX-Transport™ Foam Liquid Concentrate
Recommended use of the chemical and restrictions on use	
Identified uses	Synthetic concrete foam concentrate
Restrictions on Use	None
Company Identification	Aerix Industries 7020 Snowdrift Road Allentown, PA 18106
Customer Information Number	(610) 398-7833
Emergency Telephone Number	(888) 235-5015
Issue Date	March 18, 2020
Supersedes Date	July 18, 2019

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200), the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

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.

2. HAZARD IDENTIFICATION

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

ARX-Transport is a concentrate intended to be diluted with water. When diluted at the intended application rate up to 2.5% concentrate, the solution is outside of the flammable range.

Specific Concentration Limits

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

Acute oral toxicity	30 - 40%
Acute dermal toxicity	30 - 40%
Acute inhalation toxicity	30 - 40%
Acute aquatic toxicity	40 - 50%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Ammonium alcohol (C6-10) ether sulfate	68037-05-8	10 - 30%
Cocamidopropyl betaine	61789-40-0	7 - 13%
Sulfonic Acids, C14-16-alkane Hydroxy And C14-16-alkene, Sodium Salts	68439-57-6	1 - 5%
Isopropanol	67-63-0	1 - 5%
Hexylene Glycol	107-41-5	1 - 5%
Glycerin	56-81-5	1 - 5%

*Exact concentration withheld as trade secret.

4. FIRST- AID MEASURES

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.

4. FIRST-AID MEASURES

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.

5. FIRE - FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Sulfonic Acids, C14-16-alkane Hydroxy And C14-16-alkene, Sodium Salts

None established

Cocamidopropyl betaine

None established

Ammonium alcohol (C6-10) ether sulfate

None established

2-Propanol (Isopropanol)

ACGIH: TLV 200 ppm (492 mg/m³), 8hr; 15 min STEL 400 ppm (984 mg/m³)

OSHA PEL: 400 ppm (980 mg/m³)

Glycerin

OSHA PEL (mist): 5 mg/m³ 8h TWA respirable fraction
15mg/m³ 8h TWA total dust

Hexylene Glycol

ACGIH TLVs: TWA 25 ppm (vapor fraction),

STEL 50 ppm (vapor fraction), 10 mg/m³ (aerosol only, measured as inhalable fraction of the aerosol)

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance**Physical State**

Liquid

Color

Straw yellow

Odor

Mild, pleasant

Odor Threshold

No data available

pH

7.3

Specific Gravity

1.04

Boiling Range/Point (°C/F)

No data available

Melting Point (°C/F)

No data available

Flash Point (°C/F)

Concentrate: 52°C /126°F (TAG closed)

Diluted with water at 2.5% concentrate: >97°C (206°F)

Vapor Pressure

No data available

Evaporation Rate (BuAc=1)

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Sulfonic Acids, C14-16-alkane Hydroxy And C14-16-alkene, Sodium Salts

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.

Serious Eye damage/Irritation

Ammonium alcohol (C6-10) ether sulfate: Causes serious eye damage. (60% solution)

Sulfonic Acids, C14-16-alkane Hydroxy And C14-16-alkene, Sodium Salts: Causes eye irritation (5-38% solution).

Cocamidopropyl betaine: Causes serious eye damage. (30% solution)

11. TOXICOLOGICAL INFORMATION

Serious Eye damage/Irritation, cont.

Isopropanol: Causes serious eye irritation (animal studies.)

Hexylene Glycol: Causes serious eye irritation

Skin Corrosion/Irritation

Ammonium alcohol (C6-10) ether sulfate: Causes skin irritation. (60% solution)

Sulfonic Acids, C14-16-alkane Hydroxy And C14-16-alkene, Sodium Salts: 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Cocamidopropyl betaine

LC50 Fish 0.7 - 7 mg/l 96hr

EC50 Crustacea 1.9mg/6 48hr

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.

13. DISPOSAL CONSIDERATIONS

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.

13. DISPOSAL CONSIDERATIONS

Disposal Methods, cont.

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.

14. TRANSPORT INFORMATION

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

National Motor Freight Classification

Shipping Description	Foam for Concrete
NFMC Code	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.

15. REGULATORY INFORMATION

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).

SARA Title III Sect. 311/312 Categorization

Flammable (liquid), Serious eye damage, Skin Irritation

SARA Title III Sect. 313

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

California Proposition 65

WARNING: This product can expose you to chemicals including acetaldehyde, 1,4 dioxane, ethylene oxide and Acetic acid, 2-2 dichloro, which are known to the State of California to cause cancer, and ethylene oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov."

16. OTHER INFORMATION

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

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: March 18, 2020

Replaces: July 18, 2019

Changes made: Updates to sections 2, 8 and 9.

Information Source and References

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

Prepared By: EnviroNet LLC.

ARX-Transport is a trademark of Aerix Industries.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Aerix Industries assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.