Safety Data Sheet
BC Foam Concrete

1. IDENTIFICATION

Product Name BC Foam Concrete

Recommended use of the chemical and restrictions on use

Identified uses Synthetic concrete foam concentrate

Restrictions on Use None

Company Identification **Building Chemistry Industry**

Emergency telephone number

Dammam
P.Code 338941
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Kingdom of Saudi Arabia

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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
None identified.

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
Water	7732-18-5	45 - 55%
Anionic Surfactant	Proprietary	15 - 25%
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%

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.

Isopropanol
ACGIH: TLV 200 ppm, 8hr; 15 min STEL 400 ppm
OSHA Z-1 PEL: 400 ppm (980 mg/m^3)
Glycerin (Mist)
ACGIH: TLV 10 mg/m^3 8h TWA.
OSHA: PEL 5 mg/m^3 8h TWA respirable fraction
15mg/m^3 8h TWA total dust
Hexylene Glycol
ACGIH: TLV 25 ppm, 8hr, 121 mg/m^3 Ceiling

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)	52/126 (TAG closed)
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
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

9. PHYSICAL AND CHEMICAL PROPERTIES

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
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.

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

11. TOXICOLOGICAL INFORMATION

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
Amphoteric Surfactant
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.

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
NMFC 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
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.

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