MATERIAL SAFETY DATA SHEET

DYNA-BRITE CONCENTRATE

Section I

CHEMICALS & EQUIPMENT, INC.
2902 EAST X STREET
DEER PARK, TEXAS 77536
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
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Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	**OSHA PEL**	**ACGIH TLV**	**Other Limits Recommended**	**%** *(optional)*
Sulfuric Acid (CAS#7664-93-9)	1	2	N/A	N/A
Hydrofluoric Acid (CAS#7664-39-3)	3	3	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	200° F	**Specific Gravity (H_2O =1)**	1.158
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	N/A
Vapor Density (AIR = 1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	1

Solubility in Water
100%

Appearance and Odor
Clear, colorless to slightly tinted liquid, pungent odor.

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	**Flammable Limits**	**LEL**	**UEL**
None	N/A	N/A	N/A

Extinguishing Media
Use water spray, dry chemical, “alcohol” foam or Carbon Dioxide.

Special Fire Fighting Procedures
Cool tank with water if exposed to fire. Wear self-contained breathing apparatus and full protective clothing and boots

Unusual Fire and Explosion Hazards
Hydrofluoric acid corrodes most metals releasing flammable explosive concentrations of Hydrogen (particularly when diluted).

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	N/A

Incompatibility (Materials to Avoid)
HF vapors, Silicon Tetrafluoride, Hydrogen

Hazardous Decomposition or Byproducts
None

Hazardous Polymerization			Conditions to Avoid
	May Occur	None	None
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Severe irritant	Severe irritant	Severe irritant

Health Hazards (Acute and Chronic)
Severe irritant to corrosive effects when in contact with eyes, skin and extremely hazardous when entering the body by inhalation or ingestion.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None	None	None	No

Signs and Symptoms of Exposure
Can cause severe burns. Dangerous to eyes, skin, and respiratory tract. Corrosive to gastrointestinal tract if taken internally. Lung injury may be delayed.

Medical Conditions (Generally Aggravated by Exposure)
None

Emergency and First Aid Procedures
Remove to fresh air and call a physician. *For eyes and skin*, flush with water for at least 14 minutes. *For inhalation*, give oxygen, if no breathing, give artificial respiration (mouth to mouth). Take immediately to a hospital.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
A. Strong oxidizing material. Do not store near oxidizable materials, e.g., flammable, reducing agents, and combustible materials. Separate from caustics. Separate from chemically active metals and reducing agents. Separate from organics.
B. Dike area to contain spills. Neutralize spill with soda ash, flush away with water.

Waste Disposal Method
Refer to all State, Local and Federal laws.

Precautions to Be Taken in Handling and Storing
See step (A) above.

Other Precautions
None

Section VIII — Control Measures

Respiratory Protection (Specify Type)
NIOSH or OSHA approved respirator when mist or spray occurs

Ventilation	Local Exhaust	Special
	Yes - well ventilated	N/A
	Mechanical (General)	**Other**
	N/A	N/A

Protective Gloves
Rubber or Neoprene

Eye Protection
Face shield

Other Protective Clothing or Equipment
Rubber boots and apron

Work/Hygiene Practices
Normal