



MATERIAL SAFETY DATA SHEET

LABORATORIES

320 37th Avenue • St. Charles, Illinois 60174 • To Reorder, Call 800-323-2594

PRODUCT IDENTIFICATION
UNITED 77
BIATRON

USE / DESCRIPTION
Organic Digester
and Drain Opener

REVISION DATE
February 26, 2004

**FOR MEDICAL AND
TRANSPORTATION EMERGENCIES:**
INFOTRAC: 800-535-5053

HEALTH (0 = Maximum Safety) **3**
Always follow Label Directions and Cautions.
4 Extreme. 3 High. 2 Moderate. 1 Slight. 0 Minimal.
**See Health Hazard Data Section of this M.S.D.S.
for more detailed information.**

REACTIVITY (0 = Maximum Safety) **2**
Susceptible to Release of Energy.
4 May detonate-vacate area if
Materials are exposed to fire.
3 Strong shock of heat may
detonate-use monitors from
behind explosion resistant
barriers.
2 Violent chemical change
possible-use hose stream
from distance
1 Unstable if heated-use
precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) **0**
Susceptibility of Material to Burning.
4 Extremely flammable. 1 Must be preheated to burn.
3 Ignites at normal temperature. 0 Will not burn.
2 Ignites when moderately heated.

**PERSONAL
PROTECTION**



HAZARDOUS COMPONENTS IDENTITY, EXPOSURE LIMITS AND S.A.R.A. TITLE III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	ACGIH TWA	ACGIH STEL	OSHA PEL TWA	OTHER RECOMMENDED LIMITS	S.A.R.A. TITLE III QUANTITIES
Sulfuric Acid	7664-93-9	1 mg/m ³	3 mg/m ³	1 mg/m ³	NIOSH TWA 1 mg/m ³	3.56*

* Pounds of reportable material per quart of UNITED product.

PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT 535°F	SPECIFIC GRAVITY (H₂O = 1) 1.835
VAPOR PRESSURE (mm Hg.) 1.7 mm at 240°F	FREEZING POINT -31°F
VAPOR DENSITY (Air = 1) Greater than 1.0	EVAPORATION RATE (Butyl Acetate = 1) Less than 1.0
SOLUBILITY IN WATER Complete	VOLATILE ORGANIC COMPOUNDS (V.O.C.) (Pounds Per Quart Of Product) None
APPEARANCE AND ODOR Slightly viscous, clear, tan colored liquid with no odor.	pH: 1.0

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) None	FLAMMABLE LIMITS None	LEL None	UEL None
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EXTINGUISHING MEDIA
Use media appropriate for surrounding material. Use water spray to cool containers exposed to fire. Do not get water inside containers.

SPECIAL FIRE FIGHTING PROCEDURES
Avoid spraying water onto leaking containers. Water applied directly to sulfuric acid causes evolution of heat and spattering.

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Stay upwind if product is involved in fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS
This product reacts violently with generation of great heat, when water is added. Temperatures may exceed 240°F. and may boil and splatter the mixture.
May react with metals to release hydrogen gas.

REACTIVITY DATA

STABILITY: STABLE UNSTABLE CONDITIONS TO AVOID
Keep away from heat or open flame.

INCOMPATIBILITY (Materials To Avoid)

Do not mix this product with other cleaning chemicals, especially bases or oxidizers (like bleach).

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Oxides of Sulfur and Carbon may be formed upon severe heating.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR CONDITIONS TO AVOID
None known

HEALTH HAZARD DATA

HEALTH HAZARDS

EYES: Causes severe burns and blindness. Do NOT wear contact lenses. SKIN: Causes severe burns. INHALATION: May cause headache,

drowsiness and central nervous system depression. IF SWALLOWED: Causes severe burns to mouth, throat and stomach. May be fatal.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No
This product contains a chemical known to the state of California to cause cancer or reproductive toxicity? No

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Contact with liquid, mist, or vapor may cause immediate irritation with severe burns to all exposed tissue. Severity of burn is generally determined by the concentration of the acid and duration of exposure. EYES: May result in conjunctivitis and/or permanent loss of vision.

SKIN: Repeated skin contact may result in dermatitis and skin lesions. INHALATION: Vapor or mist may result in erosion of the teeth, inflammation of the mouth,

trachea, bronchitis and damage to the respiratory system. IF SWALLOWED: May cause severe burns. May be fatal.

TARGET ORGANS:

Eyes, skin, respiratory system, any contacted tissue

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE

Dermatitis and dental erosion.

EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush with plenty of cold water for at least 30 minute lifting upper and lower lids to ensure thorough rinsing. Call a physician or poison control center immediately. SKIN: Wash with plenty of soap and water and remove contaminated clothing immediately. Call a physician or poison control center immediately. INHALATION: Get patient to fresh air immediately. If patient is not breathing, apply CPR if needed. Call a physician or poison control center immediately. IF SWALLOWED: If conscious, give large amounts of milk or water at once.

DO NOT INDUCE VOMITING. Call a physician or poison center IMMEDIATELY. Never give anything by mouth to an unconscious person.

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear protective equipment and clothing before entering area. Ventilate area. Avoid contact with skin and eyes. Neutralize spill with soda ash.

Flush area with water using care. Unneutralized acid will generate heat when mixed with water.

WASTE DISPOSAL METHOD

Consult local, state, or federal authorities for proper disposal guidelines.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a secure area out of reach of children and unauthorized persons. Keep containers tightly closed when not in use. Do not store near

incompatible materials, such as strong alkalis or flammables. Store product in a well-ventilated area. Do not add water to concentrate.

CONTROL MEASURES

FOR USE WHERE SIGNIFICANT EYE, SKIN OR INHALATION EXPOSURE IS LIKELY

RESPIRATORY PROTECTION (Specify Type)

If TLV is exceeded, wear NIOSH/MSHA approved respirator for acid mist.

VENTILATION: MECHANICAL (General)

Maintain adequate ventilation

LOCAL EXHAUST

Hood or fan is recommended

PROTECTIVE GLOVES

Rubber or neoprene gloves are recommended

EYE PROTECTION

Chemical goggles and a face shield are recommended

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Impervious clothing, long-sleeved shirts, rubber apron and shoes are recommended.

WORK HYGENIC PRACTICES

Wash hands and face with soap and water after using this product. Remove contaminated clothing immediately and launder. Wash thoroughly with soap and water before reusing.