

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product Name: LIQUIFLO ALKALINE DRAIN OPENER
& MAINTAINER

Chemical Formula: H993

MANUFACTURER NAME AND ADDRESS: BRODI SPECIALTY PRODUCTS LTD.
3175 14th AVE, UNIT 1
MARKHAM, ONTARIO L3R 0H1
(905) 475-6084

MSDS PREPARED BY: MSDS CO-ORDINATOR, (877) 744-0751 EXT 205, BRODI SPECIALTY PRODUCTS LTD

Date prepared: December 1, 2011

Emergency Telephone Number: 1-519-759-2443
Canutec 24 Hour Emergency Phone - 613-996-6666, Cellular *666
TDG CLASSIFICATION: CORROSIVE LIQUIDS, CONTAINS CAUSTIC SODA SOLUTION,
CLASS 8 (9.2), UN 1824, PG II

Hazard Rating

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1

PERSONAL PROTECTION: C

Hazard Classification / Division: Class D, Div. 2, Subdiv. B (Toxic), E (Corrosive)

EMERGENCY OVERVIEW:

- Water white liquid with no appreciable odor.
- Solution is corrosive to body tissues and metallic materials.
- Product may react violently with acids.

POTENTIAL HEALTH EFFECTS: Solution is corrosive and severely irritating to the eyes and skin.

MEDICAL CONDITIONS AGGRAVATED: Skin and lung disorders may be affected adversely by this material; an individual's specific medical condition and circumstances of exposure determine the likelihood of an adverse effect.

SECTION II - INGREDIENTS (disclosed as per 29 CFR 1910.1200)

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>
SODIUM HYDROXIDE	1310-73-2	15 - 40	2mg/cu.M

SECTION III - PHYSICAL DATA

Boiling Point (deg C): 100+

Composite Partial Vapor Pressure (mm Hg @ 25C): 0.001

pH (as supplied): 13+

Physical State: LIQUID

Specific gravity: 1.08 - 1.1

Solubility in Water: (20C) SOLUBLE

Color: BLUE

Odor: ODORLESS

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SECTION IV - FIRE AND EXPLOSION DATA

Flammability: NON- FLAMMABLE
Flash Point (deg C, TCC): NON-FLAMMABLE LFL: NAV UFL: NAV
Hazardous combustion products: NONE
Extinguishing Media: Use appropriate media for surrounding media
Special Fire Hazards: Contact with metals generate hydrogen which is flammable

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: STABLE
Incompatible Materials: Strong acids, Aluminum, Tin, Zinc.
Hazardous decomposition products: NONE

Chemical Formula: H993

SECTION VI - TOXICOLOGICAL PROPERTIES

ORAL LD₅₀: 400 mg/kg (rabbit) LDLo [PB 234-899 1974]

DERMAL LD₅₀: Corrosive

INHALATION LC₅₀: Corrosive

Route of Entry: Skin Contact, Eye Contact, Inhalation Acute, Ingestion.

EFFECTS OF EXPOSURE TO PRODUCT:

Eye: Extremely corrosive causes corneal scarring and clouding. Damage may be delayed and may not be initially apparent.
Skin: Causes deep and severe skin burns, ulceration and scarring. Painful tissue destruction may result and the sensation of pain may be delayed.
Inhalation (of mists): Mist or dust may cause severe irritation to the nose, throat and lungs.
Ingestion: May cause pain, vomiting and severe burns to mouth and throat and extensive damage or perforation of the esophagus. May be fatal.

Carcinogenicity: Not listed

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

SECTION VII- PREVENTATIVE MEASURES

Protective gloves: RUBBER, NEOPRENE, NITRILE OR PVC
Eye protection: CHEMICAL GOGGLES
Respiratory protection: NIOSH APPROVED RESPIRATOR (FOR FUMES OR MIST)
Other protective equipment: SAFETY SHOWER & EYE WASH STATION
Engineering controls: GOOD GENERAL AREA VENTILATION
Leak and Spill Procedure: CONTAIN LEAK OR SPILL. VENTILATE AREA. PROTECTIVE EQUIPMENT MUST BE WORN. DIKE WITH INERT MATERIAL, DO NOT ALLOW ENTRY INTO WATERWAYS. PUMP INTO PLASTIC CONTAINER.
Waste disposal: IN ACCORDANCE WITH LOCAL REGULATIONS.
Storage Requirements: STORE IN COOL AREA ABOVE FREEZING POINT OF MATERIAL.

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SECTION VIII - FIRST AID

- Eye contact: Hold eyes open and flush with water up to 60 minutes. Seek medical attention immediately.
- Skin contact: Flush skin for minimum 30 minutes. If irritation persists, continue flushing. Seek medical treatment immediately. Flush during transport.
- Inhalation: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately.
- Ingestion: If victim is alert and not convulsing, rinse out mouth and give 1/2 to 1 glass of water to dilute material. Do not induce vomiting. Seek medical attention immediately.

SECTION IX - PREPARATION DATA OF MATERIAL SAFETY DATA SHEET

Additional information/comments:

Prepared By: MSDS Co Ordinator Brodi Specialty Products Ltd.

NAP - Not Applicable, NAV - Not Available.

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form.