



MATERIAL SAFETY DATA SHEET

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MYACID ACID

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: MYACID ACID
Chemical Family: 2-Bromo-2-Nitropropane-1, 3-Diol
WHMIS Classification: Covered under Agriculture
Canada Pesticides Act: PCP#21790
Workplace Hazard: Flammable solid, toxic, skin and eye irritant

Product Use: Bactericide
TDG Classification: 4.1
Packaging Group: III
PIN: UN3241
CAS# 52-51-7

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Rat/Oral)	LC ₅₀ (Rat/Inhal)
2-Bromo-2-Nitropropane-1, 3-Diol	98 min	52-51-7	307 mg/kg	Not determined

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: The solid and concentrated solutions will irritate the eyes. The solid and concentrated solutions will irritate the skin. May cause allergic reaction in some cases. Material is toxic if ingested in sufficient quantities. Symptoms may include nausea, dizziness, central nervous system effects and possibly death. Inhalation of dust may cause irritation of the bronchial passages and lungs. May be absorbed through the bronchial and lung tissues

Effects of chronic exposure: Not available

Exposure limits: Not established

Irritancy of product: Skin and eye irritant. May cause irritation of the bronchial passages and lungs

Sensitization to product: Not determined

Carcinogenicity: Not carcinogenic on skin painting in mice, or when given in the drinking water to rats.

Reproductive toxicity: No information available

Teratogenicity: Not teratogenic or embryotoxic in rats and rabbits.

Mutagenicity: Not mutagenic in bacterial systems, or host-mediated and dominant lethal assays in mice.

Name of toxicological synergistic products: Ni information available



SECTION IV: FIRST AID MEASURES

Skin contact: Remove contaminated clothing. Wash affected area with plenty of water. If irritation persists, or develops, seek medical attention. Launder contaminated clothing prior to reuse.

Eye contact: Flush with gently flowing warm water for minimum 15 minutes. Obtain immediate medical attention when flushing period is completed.

Inhalation: Move patient to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.

Ingestion: Rinse mouth and give one to two glasses of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing victim.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White crystalline solid. Faint characteristic odour.

Odour threshold: Not applicable

Specific gravity: Not available

Vapor pressure (mmHG): Not available

Vapor density (Air=1): Not available

Evaporation rate: Not available

Boiling point (°C): Decomposes at melting point

Freeze/Melting point (°C): 130 (exponential exotherm and 140oC)

pH (%): < 7.0 in 1% solution

Co-efficient of water/oil distribution: Soluble.



SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: No flammable. When heated above 140°C the solid decomposes exothermically liberating toxic hydrogen bromide and oxides of nitrogen and swelling to give a sticky, tarry mass, which burns readily in a fire.

Means of extinguishing: Water, water fog, foam, CO₂, and dry chemical.

Flash point: Not flammable

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizers. At temperatures above 140°C the product will decompose exothermically. The decomposition temperature is significantly lowered in the presence of caustics to an extent proportional to the amount of caustic present.

Conditions of reactivity: Heat

Hazardous decomposition products: Toxic hydrogen bromide gas and oxides of nitrogen upon decomposition.



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Approved respirator or dust mask where dust, mist, or spray may be generated. Manufacturer in-house exposure level = 0.5 mg/m³. Chemical resistant gloves; plastic or rubber. Goggles and /or full-face shield. Do not wear contact lenses. Impervious protective clothing and chemical resistant safety shoes. Ensure emergency shower and eye wash station are available.

Specific engineering controls: Local exhaust recommended if PEL is exceeded.

Procedures for leak/spills: Immediately sweep up - avoid creating a dust cloud, and remove the spillage. Clean the area with detergent and water.

Waste disposal: Burn in a licensed incinerator fitted with an after burner and efficient scrubbing device or bury in a licensed landfill site, in accordance with the Control of Pollution Act. Empty containers should not be re-used, but disposed of as hazardous waste.

Handling procedures and equipment: Avoid contact with skin and avoid breathing dust. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking, or using bathroom. Any protective clothing, clothing or shoes, which become contaminate with this product, should be removed immediately and thoroughly laundered before reuse.

Storage requirements: Store in closed, properly labeled containers indoors in a dry area away form oxidizing materials, alkaline materials, sources of heat or ignition, and away from food, drink and animal feeding stuffs. Do not remove or deface labels or tags. Slowly add this product to water with constant stirring and avoid splashing. Full protective equipment as outlined above should be worn. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: February 2, 2010

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.