



MATERIAL SAFETY DATA SHEET

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Q'BREAK

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: Q'BREAK
Chemical Family: Enzymes and acid blend
WHMIS Classification: D2A; ,D2B
Workplace Hazard: Respiratory tract sensitizer, Skin & eye irritant.

Product Use: Breaker to separate water in Polytar
TDG Classification: Not Regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Oral /Rat)	LC ₅₀ (Inhalation/Rat)
Citric Acid	30-60%	77-92-9	3000 mg/kg	Not determined
Amylase	1-5%	9000-90-2	Not determined	Not determined

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Dust may irritate the nose and throat. Inhalation may cause irritation of the mucous membranes. May cause gastrointestinal irritation and dental erosion if ingested. May cause irritation to eyes and skin.

Effects of chronic exposure: Repeated inhalation of enzyme aerosols may cause respiratory tract sensitization in susceptible individuals. Symptoms include shortness of breath, skin rashes and irritation to eyes.

Exposure limits: Not determined

Irritancy of product: Skin and eye irritant

Sensitization to product: Respiratory tract sensitizer

Carcinogenicity: Not determined

Reproductive toxicity: Not determined

Teratogenicity: Not determined

Mutagenicity: Not determined

Name of toxicological synergistic products: Not determined



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SECTION IV: FIRST AID MEASURES

Skin contact: Wash with soap and water. If irritation develops or persists, seek medical attention. Contaminated clothing should be laundered before re-use.

Eye contact: Flush eyes with water for at least 15 minutes, seek medical attention.

Inhalation: Remove patient to fresh air. If breathing has stopped, administer artificial respiration, and seek medical attention.

Ingestion: If conscious, give 2 to 4 glasses of water to drink. DO NOT induce vomiting. Seek medical attention. Do not give anything by mouth to an unconscious or convulsing person.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: White powder. Odourless

Odour threshold: Not determined

Specific gravity (°C): 1.54

Vapor pressure (mmHG): Not determined

Vapor density (Air=1): Not determined

Evaporation rate: Not determined

Boiling point (°C): Not applicable

Freeze/Melting point (°C): Not determined

pH (%): 2.6 @ 10%, 2.4 @ 20% (wt/v)

Solubility in water: 1.62 g / 100 ml



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not determined

Means of extinguishing: Dry chemical, CO₂, foam

Flash point: Not determined

Upper flammable limit: Not determined

Lower flammable limit: Not determined

Auto-ignition temperature: Not determined

Hazardous combustion products: CO_x on combustion

Explosion data-sensitivity to mechanical impact: None known

Explosion data-sensitivity to static discharge: None known

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Alkali metals, organic acids, oxides of sulphur, strong bases.

Conditions of reactivity: Not known

Hazardous decomposition products: CO_x on combustion

Hazardous polymerization: Will not occur



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Chemical-resistant clothing is recommended, including gloves, apron, and goggles. In absence of proper ventilation, recommended NIOSH-approved dust respirator.

Specific engineering controls: General mechanical ventilation.

Procedures for leak/spills: Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

Waste disposal: All waste should be disposed of according to federal, provincial and local regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government regulations.

Handling procedures and equipment: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

Storage requirements: Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible materials.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: March 24, 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.