

MATERIAL SAFETY DATA SHEET



Date Issued: 06/30/2008
MSDS No: LMR200

BRIGHT EZE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BRIGHT EZE
PRODUCT DESCRIPTION: ACIDIC DETERGENT
PRODUCT CODE: LMR200A
PRODUCT FORMULATION NAME: BRIGHT EZE
ACTIVE INGREDIENT(S): Phosphoric acid; Nitric acid

MANUFACTURER

Zee Company, Inc.
4146 South Creek Road
Chattanooga, TN 37406
Emergency Contact: James A. Faller
Service Number: (423) 698-1401

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Pink liquid

IMMEDIATE CONCERNS: Corrosive to skin and eye tissues.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive to eyes and may cause irreversible damage to eye tissues.

SKIN: Corrosive

INGESTION: Toxic by ingestion

INHALATION: Prolonged inhalation may be harmful.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation and burning

SKIN: Irritation, burning, reddening and swelling of tissues

INGESTION: Gastric pain and vomiting

INHALATION: Irritation of respiratory system and difficulty in breathing

CHRONIC EFFECTS: None known

CARCINOGENICITY: None known

MUTAGENICITY: None known

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None known

TERATOGENIC EFFECTS: None known

MEDICAL CONDITIONS AGGRAVATED: Not Established

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt.%	CAS
Phosphoric acid	< 25	7664-38-2
Nitric acid	< 10	7697-37-2

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Rinse skin with water for 15 minutes. If irritation persists, seek medical attention.

INGESTION: Immediately drink large quantities of milk, milk of magnesia, egg whites or gelatin solution. If these are not available, drink large quantities of water. DO NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Remove to fresh air. If breathing has not returned to normal within a few minutes, GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMPERATURE: None

EXTINGUISHING MEDIA: N/A

FIRE FIGHTING PROCEDURES: Wear protective clothing to avoid contact.

FIRE FIGHTING EQUIPMENT: Fumes are toxic and irritating. Firefighters should wear full protective gear and self-contained positive fresh air breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and phosphorus

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Neutralize with lime or soda ash and flush with water.

LARGE SPILL: Dike spill and vacuum or pump spilled material into proper storage container for hazardous waste disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep this and all chemicals out of the reach of children.

HANDLING: Keep container closed when not in use. Follow label instructions.

SHELF LIFE: 1 Year

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Phosphoric acid	TWA		1 mg/m ³		1 mg/m ³
	STEL		3 mg/m ³		
Nitric acid	TWA	2 ppm [1]	[1]	2 ppm	
	STEL	4 ppm [2]	[2]		
OSHA TABLE COMMENTS: 1. 8 Hours 2. 15 minutes					

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical resistant goggles or full face shield.

SKIN: Wear impervious gloves and rubber or other waterproof boots to prevent excessive skin contact.

RESPIRATORY: For exposure at or above exposure limits wear a NIOSH/MSMA approved CCR-ACID mask.

PROTECTIVE CLOTHING: Wear long sleeves and water-proof apron to prevent excessive skin contact. Remove and wash contaminated clothing before wearing again.

OTHER USE PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Acidic

APPEARANCE: Clear liquid

COLOR: Pink

pH: < 1.0

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Established

BOILING POINT: Not Determined

FREEZING POINT: Not Determined

MELTING POINT: Not Determined

FLASHPOINT AND METHOD: None

SOLUBILITY IN WATER: Completely Miscible

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EVAPORATION RATE: Not Determined

SPECIFIC GRAVITY: ~ 1.180 g/ml

WEIGHT PER VOLUME: 9.82 lb/gal

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Do not mix product with oxidizers, bleach or ferrous metals.

INCOMPATIBLE MATERIALS: Alkalies

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

IARC: Ingredients not listed.

NTP: Ingredients not listed.

OSHA: Ingredients not listed.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with Federal, State and local regulations.

EMPTY CONTAINER: Triple rinse with water then offer for reconditioning or disposal.

GENERAL COMMENTS: Warning! Empty container retains product residue and vapors. Observe all precautions even after container is empty. Washing will not make container safe for food or cosmetic storage. Keep container closed tightly.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CORROSIVE LIQUIDS, N.O.S. (contains Phosphoric and Nitric acids)

TECHNICAL NAME: CORROSIVE LIQUIDS, N.O.S. (contains Phosphoric and Nitric acids)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1760

PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 12500 pounds

U.S. SURFACE FREIGHT CLASS: 55

PLACARDS: Corrosive

15. REGULATORY INFORMATION

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UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Reporting required for inventory above TPQ

REACTIVITY: Yes **ACUTE:** Yes

313 REPORTABLE INGREDIENTS: Reporting may be required for users in manufacturing sector.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Section 302 reporting not required. Section 304 reporting is required for releases above the threshold amount listed.

THRESHOLD QUANTITY: 12,500

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Same as section 304

REPORTABLE SPILL QUANTITY: 12,500 lbs

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: INGREDIENTS LISTED

RCRA STATUS: N/A

16. OTHER INFORMATION

APPROVED BY: James A. Faller **TITLE:** Director of Research

PREPARED BY: James A Faller

INFORMATION CONTACT: James Faller

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	2
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	D

GENERAL STATEMENTS: The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable, and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.