

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BIO POWDER** ID NUMBER: 3230 PRODUCT USE/CLASS: ENZYME-BASED CLEANER
MANUFACTURER: CEMICAL UNIVERSE 1133 SALINE , N. KANSAS CITY, MO 64116 EMERGENCY TELEPHONE: 816-820-0332
PREPARED BY: REGULATORY DEPARTMENT PHONE: 816-471-3602 PREPARE DATE: 10-15-11

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT.PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
SODIUM CARBONATE	497-19-8	< 20 %	No Info	15 mg/m3	No Info	NO
2-BUTOZYETHENOL	111-76-2	< 2 %	No Info	25 ppm	50 ppm	NO
D-LIMONENE	5989-27-5	< 2 %	None Est	None Est	None Est	NO

THIS PRODUCT CONTAINS OTHER NON- HAZARDOUS INGREDIENTS. (See Section 11 for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE: 212 - 237 F VAPOR DENSITY : IS HEAVIER THAN AIR ODOR: MILD CITRUS SPECIFIC GRAVITY: NA
APPEARANCE: GREEN POWDER pH: 10.1 to 10.6 (in 10% solution) EVAPORATION RATE: SLOWER THAT ETHER SOLUBILITY IN H2O : COMPLETE
(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS PRODUCT NONCOMBUSTIBLE. IT MAY DECOMPOSE RELEASING OXYGEN, INTENSIFYING THE FIRE. A STRONG OXIDIZER, IT MAY INITIATE COMBUSTION OF ORGANIC MATERIALS OR EXPLOSION OF FLAMMABLE LIQUIDS.

SPECIAL FIREFIGHTING PROCEDURES: COOL CONTAINERS IN VICINITY TO PREVENT OVERHEATING. FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE : OVER EXPOSURE IS HIGHLY UNLIKELY. THIS PRODUCT IS A COMMERCIAL CLEANING SOLUTION INTENDED FOR USE BY PROFESSIONAL CLEANING STAFF.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: EYE CONTACT CAN CAUSE IRRITATION AND BURNING.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED OR REPEATED CONTACT CAN CAUSE IRRITATION AND BURNS TO SKIN.

EFFECTS OF OVEREXPOSURE - INHALATION: EXCESSIVE INHALATION MAY CAUSE NAUSEA, DIZZINESS.

EFFECTS OF OVEREXPOSURE - INGESTION: CORROSIVE. LARGE QUANTITIES COULD CAUSE PAIN, NAUSEA.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: NO INFORMATION.

FIRST AID - EYE CONTACT: FLUSH WITH WATER 15-30 MINUTES, LIFTING EYELIDS. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: FLUSH WITH WATER 15 MINUTES. REMOVE CONTAMINATED CLOTHING. LAUNDER BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

FIRST AID - INHALATION: REMOVE TO FRESH AIR. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER OR MILK. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY: INGESTION EYE CONTACT

(Continued on Page 2)

PRODUCT NAME: **BIO POWDER**

ID NUMBER: 3230

PRODUCT USE/CLASS: ENZYME-BASED CLEANER

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: No Information.

CONDITIONS TO AVOID: ACIDS, STRONG OXIDIZING OR REDUCING MATERIALS.

INCOMPATIBILITY: ACTIVE METALS. ORGANIC MATERIALS.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is not stable under normal storage conditions.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR APPROPRIATE PROTECTIVE AND RESPIRATORY EQUIPMENT. PREVENT SPILLS FROM ENTERING SEWERS, OR ANY UNAUTHORIZED WATER SYSTEMS. SPILL MAY BE ABSORBED ONTO APPROPRIATE ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGHI'S TLV LIMIT.

SKIN PROTECTION: RUBBER GLOVES NEEDED.

EYE PROTECTION: SAFETY GLASSES SHOULD BE USED WHEN USING THIS PRODUCT.

OTHER PROTECTIVE EQUIPMENT: PREVENT PROLONGED CONTACT. EYE WASH, SAFETY SHOWER AVAILABLE.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL DRY AREA KEEP AWAY FROM SPARKS AND OPEN FLAMES.

OTHER PRECAUTIONS: OBEY ALL HAZARD WARNINGS WHEN CONTAINERS ARE EMPTIED.

SECTION X - HMIS RATINGS

HMIS RATINGS	HEALTH: 1	FLAMMABILITY: 0	REACTIVITY: 0
--------------	-----------	-----------------	---------------

SECTION XI - OTHER REGULATIONS

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
No SARA Section 313 components exist in this product.		

PREVIOUS MSDS REVISION DATE: NA

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>