ZEE COMPANY INC®
SOLUTIONS FOR EXCELLENCE
A Member of The Vincit Group

# MATERIAL SAFETY DATA SHEET

## I. GENERAL INFORMATION

PRODUCT NAME: BIOCIDE 2

DISTRIBUTOR'S ADDRESS: ZEE Company, Inc.
4146 South Creek Road
Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE: 1-800-424-9300

TRADE NAME: GLUTARALDEHYDE

CHEMICAL FORMULA: AS SEEN ON LABEL
CHEMICAL FAMILY: MICROBIOCIDE

| | |
|---|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| REACTIVITY | 1 |
| PERSONAL PROTECTION | H |

## II. HAZARDOUS INGREDIENTS

| PRINCIPAL HAZARDOUS INGREDIENT(S): | % OF PRODUCT | PEL / TLV | CAS NO. |
|---|---|---|---|
| GLUTARALDEHYDE | 15 | PEL: 0.2 PPM<br>TLV: 0.2 PPM | 111-30-8 |

## III. PHYSICAL DATA

| | | | |
|---|---|---|---|
| BOILING POINT (F): | >100 C | SPECIFIC GRAVITY (H20=1): | 1.04 |
| VAPOR PRESSURE: | 0.2 | PERCENT VOLATILE BY WEIGHT (%) | NA |
| VAPOR DENSITY: | 0.7 | MELTING / FREEZING POINT (F): | NE |
| SOLUBILITY IN WATER: | COMPLETE | PH: | APPROXIMATELY 3.5 |
| APPEARANCE AND ODOR: | CLEAR COLORLESS LIQUID WITH SHARP FRUITY MEDICINAL ODOR | | |

## IV. FIRE AND EXPLOSION DATA

FLASH POINT: N/A
AUTO IGNITION TEMPERATURE: NE
FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%): UPPER: N/A LOWER: N/A
EXTINGUISHER MEDIA: AS USED ON SURROUNDING FIRE
SPECIAL FIRE FIGHTING PROCEDURES: WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT.

UNUSUAL FIRE/EXPLOSION HAZARDS: NONE KNOWN

## V. PHYSICAL HAZARDS

STABILITY: STABLE CONDITIONS TO AVOID: NONE
MATERIALS TO AVOID: STRONG ALKALIES, STRONG ACIDS
HAZ. POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: HIGH TEMPERATURES
HAZARDOUS DECOMPOSITION PRODUCTS: BURNING MAY PRODUCE CARBON MONOXIDE AND/OR CO2

## VI. HEALTH HAZARDS

ACUTE: CORROSIVE TO EYES CHRONIC: SKIN IRRITANT

SIGNS AND SYMPTOMS OF EXPOSURE: PRODUCT MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. DO NOT TASTE. VAPOR IS IRRITATING TO RESPIRATORY TRACT. CONTACT WITH EYES WILL CAUSE SEVERE CORNEAL INJURY. SKIN CONTACT WILL CAUSE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGREVATED BY EXPOSURE: AVOID INHALATION OF VAPORS. INHALATION MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN: IARC: NO NATIONAL TOXICOLOGY PROGRAM: NO

## VII. EMERGENCY AND FIRST AID PROCEDURES

TREAT SYSTEMATICALLY AS OUTLINED BELOW:

INHALATION: IF AFFECTED, REMOVE PERSON TO FRESH AIR. CONSULT A PHYSICIAN IF BREATHING DIFFICULTY OCCURS.

SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET MEDICAL ATTENTION. DO NOT REMOVE CONTACT LENSES.

INGESTION: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO DRINK. OBTAIN MEDICAL ATTENTION WITHOUT DELAY.

## VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL: COMPLETELY CONTAIN AND DIKE SPILLS RECOVER IF POSSIBLE. ABSORB REMAINDER AND DISPOSE OF PROPERLY. TOXIC TO FISH: AVOID DISCHARGE TO NATURAL WATERS. SEE SECTION X FOR MORE REGULATORY INFORMATION.

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WASTE DISPOSAL METHODS: WASTE DISPOSAL METHODS: INCINERATE OR DISPOSE OF AS A PESTICIDE WASTE, IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

## IX. CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH APPROVED RESPIRATOR WITH ORGANIC CARTRIDGE. SELF CONTAINED BREATHING APPARATUS FOR HIGH CONCENTRATIONS.

VENTILATION: LOCAL EXHAUST: PREFERRED

PROTECTIVE GLOVES: RUBBER, NITRILE(NBR), BUTYL, POLYETHYLENE

EYE PROTECTION: CHEMICAL SPLASH GOGGLES, FACE SHIELD

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: IMPERVIOUS CLOTHING: IE. BOOTS, APRONS TO MINIMIZE POTENTIAL CONTACT.

WORK/HYGENIC PRACTICES: CONTAMINATED CLOTHING SHOULD BE LAUNDERED BEFORE REUSE.

OTHER: SAFETY SHOWER/EYE WASH LOCATED IN AREA. DO NOT HEAT ABOVE 50 C

## X. REGULATORY INFORMATION

DOT SHIPPING NAME: COMPOUND, INDUSTRIAL PROCESS WATER TREATING, LIQUID

HAZARD CLASSIFICATION: NA UN / NA NUMBER: NA

DOT LABEL REQUIRED: NA

SARA TITLE III REPORTING: SECTION 311: X SECTION 312: X SECTION 313: NA

SARA 313 REPORTABLE PRODUCT: NA

SARA TPQ: NA

CERCLA REPORTABLE QUANTITY OF PRODUCT: NA

HMIS RATING: HEALTH 3 FLAMMABILITY 0 REACTIVITY 1

DATE PREPARED: JUNE 2002

PREPARED BY: CHRIS BUNCH

NE = Not Established N/A = Not Applicable NR = Not Required < = Less Than > = Greater Than

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