

CAB.

CONTROL # 074554
OUR NUMBER 606260
CUST. ORDER P0071999
CATALOG # 853353

SCHOOLCRAFT COLLEGE
RECEIVING DOCK
18600 HAGGERTY ROAD
LIVONIA MI 48152

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION I

PRODUCT NAME: CARO-SAFE CONCENTRATE
SIZE: 1 L, 4 L, 20 L
CHEMICAL NAME: DOES NOT APPLY--PRODUCT IS A MIXTURE
FORMULA: PROPRIETARY INFORMATION
MANUFACTURER: CAROLINA BIOLOGICAL SUPPLY COMPANY
ADDRESS: 2700 YORK ROAD
BURLINGTON, NC 27215
FOR INFORMATION ON HEALTH HAZARDS CALL: 1-919-584-0381
FOR OTHER INFORMATION CALL: 1-800-334-5551, (IN NC CALL 1-800-632-1231)
DATE: 16-APR-88

SECTION II - HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENTS (%): ETHYLENE GLYCOL--99%
TLV (UNITS): 100 PPM

SECTION III - PHYSICAL DATA

BOILING POINT: (DEGREES F): 370 DEGREES F. 197.2 DEGREES C AT 760 MM HG
VAPOR PRESSURE (MM HG): .1 MM HG AT 68 DEGREES F.
VAPOR DENSITY (AIR=1): 2.6
SPECIFIC GRAVITY (H2O=1): 1.115 AT 68 DEGREES F.
PERCENT VOLATILE BY VOLUME: NOT APPLICABLE
EVAPORATION RATE: NO INFORMATION AVAILABLE
SOLUBILITY IN WATER: MISCIBLE
APPEARANCE AND ODOR: CLEAR, COLORLESS, ODORLESS LIQUID.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): CLOSED CUP 241.00 DEGREES F
EXTINGUISHER MEDIA: WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL.
FLAMMABLE LIMITS IN AIR % BY VOLUME:

SPECIAL FIRE FIGHTING PROCEDURES: WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINER OF HOT BURNING LIQUID. SELF CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN RESIDUE) CAN IGNITE EXPLOSIVELY.

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SECTION V - HEALTH HAZARD DATA

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THRESHOLD LIMIT VALUE: SEE SECTION II

EFFECTS OF OVEREXPOSURE:

ACUTE: MATERIAL IS AN IRRITANT. MAY BE HARMFUL BY INHALATION, INGESTION OR ABSORPTION THROUGH THE SKIN.

CHRONIC: NO INFORMATION AVAILABLE

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: IF AFFECTED REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

EYES: FLUSH WITH LARGE AMOUNTS OF WATER LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION.

SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

INGESTION: GIVE TWO GLASSES OF WATER. IMMEDIATELY INDUCE VOMITING. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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SECTION VI - REACTIVITY DATA

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STABILITY: UNSTABLE

STABLE: X

CONDITIONS TO AVOID: NO INFORMATION AVAILABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: NO INFORMATION AVAILABLE

HAZARDOUS POLYMERIZATION:

MAY OCCUR:

WILL NOT OCCUR: X

CONDITIONS TO AVOID: NO INFORMATION AVAILABLE

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SECTION VII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SMALL SPILL: ABSORB LIQUID ON VERMICULITE, PAPER OR OTHER SUITABLE ABSORBENT MATERIAL. TRANSFER TO HOOD AND ALLOW TO COMPLETELY EVAPORATE.

LARGE SPILL: ELIMINATE ALL SOURCES OF IGNITION. REMOVE PERSONNEL NOT WEARING SUITABLE PROTECTIVE EQUIPMENT. STOP SPILL AT SOURCE BY DIKING AND PUMP LIQUID INTO SALVAGE TANK. TAKE UP REMAINING MATERIAL BY ABSORBING ON SUITABLE ABSORBENT SUCH AS VERMICULITE. WHEN SATURATED SHOVEL ABSORBENT MATERIAL INTO CONTAINERS FOR DISPOSAL.

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

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SECTION VIII - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION (SPECIFY TYPE): IF TLV IS EXCEEDED A NIOSH-MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED. OSHA REGULATIONS ALSO PERMIT THE USE OF APPROVED NIOSH-MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS.

VENTILATION: LOCAL AND/OR GENERAL

LOCAL EXHAUST:

MECHANICAL (GENERAL):

SPECIAL:

OTHER:

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS. NEVER WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WEAR IMPERVIOUS CLOTHING AND/OR BOOTS TO PREVENT PROLONGED SKIN CONTACT. EYE WASH, SAFETY SHOWER.

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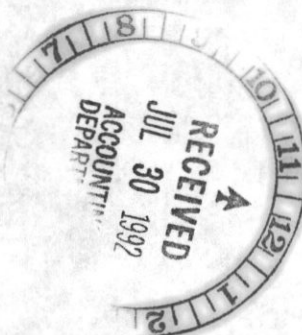
SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE PRODUCT RESIDUES MAY REMAIN. OBSERVE ALL HAZARD PRECAUTIONS WHEN HANDLING EMPTY CONTAINERS.

OTHER PRECAUTIONS: OVEREXPOSURE TO COMPONENTS HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: HEPATIC ABNORMALITIES, NEPHRITIS AND CENTRAL NERVOUS SYSTEM DAMAGE.

APPROVED BY:



LOWER -- 3.2

UPPER -- NO INFORMATION AVAILABLE

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE