

715 S.E. 6th Ave.
MILLSBORO, OR 97122

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/A
TRADE NAME & SYNONYMS
DR. ZYME
CHEMICAL FAMILY
BACTERIOLOGICAL SPORES AND ENZYMES
FORMULA
MIXTURE
MANUFACTURER'S NAME
NATIONAL CHEMSEARCH DIV. OF NCM CORP
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PREPARED BY
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PRODUCT CODE NUMBER
0316
EMERGENCY TELEPHONE NUMBER
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SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	REL*	CAS#
ISOPROPYL ALCOHOL	SKIN IRR	400PPM	400PPM	67-63-0

SECTION IIIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5007P

SECTION III - PHYSICAL DATA

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DR. ZYME	
BOILING PT. (FAHRENHEIT)	210 SPEC GRAVITY (H2O=1) 1.00
VAPOR PRESSURE (MM HG.)	20 COLOR MILKY WHITE
VAPOR DENSITY (AIR=1)	0.6 ODOR CHERRY VANILLA
PH @ 100%	7 CLARITY TURBID
PERCENT VOLATILE BY VOLUME (%)	98 EVAPORATION RATE (BU AC = 1) 0.10
SOLUBILITY IN WATER	COMPLETE
VISCOSITY	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NON-FLAMM/A		N/A	N/A
EXTINGUISHING MEDIA	"ALCOHOL" X<--CO2 X<--CHEMICAL X<--WATER X<--OTHER		
<--FOAM	<--FOAM		

SPECIAL FIRE FIGHTING PROCEDURES
WEAR NIOSH APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO PREVENT EXPOSURE TO CARBON SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.

UNUSUAL FIRE & EXPLOSION HAZARDS
NONE KNOWN

NIHHA HAZARD RATING (0=INSIGNIFICANT, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME):
0<--HEALTH 0<--FLAMMABILITY 0<--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE SEE SECTION II.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)

DIRECT CONTACT WITH EYES MAY CAUSE IRRITATION.

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NUMBER OF PAGES: 3

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CHRONIC - (LONG TERM EXPOSURE)
DIRECT CONTACT WITH EYES FOR A PROLONGED PERIOD OF TIME CAN CAUSE IRRITATION.

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
TYPICALLY NOT A HAZARD, BUT GET TO FRESH AIR AND TREAT SYMPTOMATICALLY.

EYE CONTACT:
FLUSH WITH PLENTY OF WATER HOLDING EYES APART TO ENSURE FLUSHING OF THE ENTIRE SURFACE. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

SKIN CONTACT:
WASH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:
LOW ORAL TOXICITY, BUT IF LARGE QUANTITIES HAVE BEEN INGESTED, GIVE TWO GLASSES OF WATER AND INDUCE VOMITING. SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN

N/A

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC <--YES NTP <--YES OSHA <--YES AGG:M <--YES OTHER <--YES
X<--NO X<--NO X<--NO X<--NO X<--NO

ISOPROPANOL

EYE-MMN: 20 PPM 2.
ORL-MMN TLCL = 18,710 MG/KG;CNS 2.
ORL-MAN TLCL = 8800 MG/KG 2.
IML-MMN TLCL = 400 PPM 2.

SECTION VII - REACTIVITY DATA

STABILITY X<--STABLE <--UNSTABLE CONDITIONS TO AVOID
AVOID USE OR STORAGE AT ELEVATED TEMPERATURES.
AVOID CONTACT WITH BLEACH, HARSH CHEMICALS AND DISINFECTANTS.

INCOMPATIBILITY (MATERIALS TO AVOID)
STRONG OXIDIZERS SUCH AS LIQUID OXYGEN, SODIUM OR CALCIUM HYPOCHLORITES, PEROXIDES, ETC.

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SECTION VII - REACTIVITY DATA

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HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON

HAZARDOUS X WILL NOT MAY
X<--OCCUR <--OCCUR CONDITIONS TO AVOID

POLYMERIZATION N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
FLUSH SURFACE WITH LARGE VOLUMES OF WATER & FLUSH DOWN DRAIN.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATIONS CONCERNING HEALTH POLLUTION. CONSULT YOUR LOCAL WATER BOARD BEFORE DISCARDING THIS MATERIAL DOWN THE DRAIN.

NEUTRALIZING AGENT

CHLORINE OR DISINFECTANTS WILL INACTIVATE.

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION
NONE REQUIRED.

RESPIRATORY PROTECTION
NONE REQUIRED.

PROTECTIVE GLOVES
RUBBER GLOVES IF SKIN IS BROKEN.

EYE PROTECTION
CHEMICAL GOGGLES IF EYE CONTACT IS LIKELY.

OTHER PROTECTION
N/A

SECTION X - STORAGE AND HANDLING INFORMATION

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STORAGE TEMPERATURE
120 F. <--MAX 32 F <--MIN X
PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE AT MODERATE TEMPERATURES
OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN.
READ ENTIRE LABEL BEFORE USING PRODUCT.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME C.A.S. NUMBER UPPER % LIMIT
N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE 311 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.
IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT AND USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

SECTION XII - TRANSPORTATION - (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCC <--TARIFF 8 C <--IATA <--MILITARY AIR (AFR 71-4)
SHIPPING NAME
HAZARD CLASS IC NUMBER REPORT QTY
LABELS LIMITED QTY
UNIT CONTAINER
DOT SPS CONTAINER NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)

DR. ZYME

SECTION XIII - REFERENCES

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1. THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES IN THE WORK
ENVIRONMENT 2ND EDITION. AEGIM, 1985
2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS. 8TH EDITION.
N. IRVING SAX.

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