

CUSTOMER: A0088894 ORDER # : 0309@
BATCH #: 963430022 STICKER #: 963430645
ZONE #: CSE2
BARCODE NUMBER: 900002951 0004
PRODUCT NAME : DR ZYME

MATERIAL SAFETY DATA SHEET : DR ZYME

PAGE : 1

-0316

DATE OF ISSUE
04/04/96

SUPERSEDES
04/03/96

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS

N/A

TRADE NAME & SYNONYMS

DR ZYME

CHEMICAL FAMILY :

BACTERIOLOGICAL SPORES AND ENZYMES

FORMULA

X <-- MIXTURE

MANUFACTURE'S NAME:

CHEMSEARCH DIV. OF NCH CORP.

ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)

BOX 152170
IRVING, TEXAS 75015

PREPARED BY:

L DEYOUNG/CHEMIST

PRODUCT CODE NUMBER

4087

EMERGENCY TELEPHONE NUMBER

972-438-1381

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

CHEMICAL NAME (INGREDIENTS) :

NO HAZARDOUS INGREDIENTS PER

HAZARD----->

STEL(TWA)*-->

TLV----->

CAS#-->

PEL----->

29 CFR 1910.1200.

HAZARD----->

STEL(TWA)*-->

TLV----->

CAS#-->

PEL----->

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE

SECRET REGISTRY # 409363-5007P

SECTION III - PHYSICAL DATA

BOILING PT. (F) | 210 | SPEC. GRAVITY (H2O=1) | 1.00

VAPOR PR. (MM HG) | 20 | COLOR | MILKY WHITE

VAPOR DENSITY | 0.6 | ODOR | CHERRY VANILLA

PH. @ 100% | 7 | CLARITY | TURBID

% VOLATILE BY VOL | 98 | EVAPORATION RATE
(BU A/C = 1) | 0.10

H2O SOLUBILITY | COMPLETE

VISCOSITY | NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)

NON-FLAM

FLAMMABLE LIMITS

LEL

N/A

UEL

N/A

EXTINGUISHING MEDIA "ALCOHOL"

<--FOAM

<--FOAM

X <--CO2

DRY

X <--CHEMICAL

WATER

X <--SPRAY

<--OTHER

SPECIAL FIRE FIGHTING PROCEDURES

WEAR NIOSH APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO
PREVENT EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE KNOWN

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):

1 <--HEALTH 0 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

SECTION V - HEALTH HAZARD DATA (CONTINUED)

EFFECTS OF OVEREXPOSURE : - ACUTE - (SHORT TERM EXPOSURE)

~^<>|NO EFFECTS ARE EXPECTED.~^<>|

- CHRONIC - (LONG TERM EXPOSURE)
NO EFFECTS ARE KNOWN.

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
TYPICALLY NOT A HAZARD, BUT IF SYMPTOMS ARE FELT, REMOVE TO FRESH AIR.EYE CONTACT:
RINSE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.SKIN CONTACT:
WASH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.INGESTION :
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	ACGIH	<--YES	OTHER	<--YES
	X<--NO	NTP	X<--NO	OSHA	X<--NO	ACGIH	X<--NO	OTHER	X<--NO

N/A

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.HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON

HAZARDOUS POLYMERIZATION	WILL NOT X <--OCCUR	MAY <--OCCUR	CONDITIONS TO AVOID
	N/A		

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
FLUSH SURFACE WITH LARGE VOLUMES OF WATER & FLUSH DOWN DRAIN.WASTE DISPOSAL METHOD(S) :
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.

SECTION IX - SPECIAL PROTECTION INFORMATION (CONTINUED)

RESPIRATORY PROTECTION :
NONE REQUIRED.

GLOVE PROTECTION :
RUBBER GLOVES IF SKIN IS BROKEN.

EYE PROTECTION :
SAFETY GLASSES IF EYE CONTACT IS LIKELY.

OTHER PROTECTION :
N/A

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
MAX: 120 F. MIN: 35 F.	X			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 III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END 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.

CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
NONE

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

LABELS	LIMITED QTY
UNIT CONTAINER	
DOT SPS CONTAINER	NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)	

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1991-1992.
2. OSHA, PEL.

* SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

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SECTION XIII - REFERENCES (CONTINUED)

ALL RISKS ASSOCIATED WITH SUCH UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF
THE PRODUCT.