



WUXIZYME RCL

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1 CHEMICAL PRODUCT WUXIZYME RCL
- 1.2 PREPARED BY ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT
- 1.3 PREPARATION DATE 3/20/2007
- 1.4 CHEMICAL FORMULA N.AV
- 1.5 MOLECULAR WEIGHT N.AV
- 1.6 CHEMICAL FAMILY ENZYME PROTEIN
- 1.7 MATERIAL USE REFER TO TECHNICAL LITERATURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	CHEMICAL NAME	%	EINECS #
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9012-54-8	WUXIZYME RCL	100	3.2.1.4
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2.1 HAZARD SYMBOLS NONE LISTED

2.2 RISK PHRASES NONE LISTED

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: NOT AVAILABLE
CAUTION! MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION. THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.

TARGET ORGANS: NONE

POTENTIAL HEALTH EFFECTS

EYE MAY CAUSE EYE IRRITATION

SKIN MAY CAUSE SKIN IRRITATION

INGESTION THE TOXICOLOGICAL PROPERTIES OF THIS SUBSTANCE HAS NOT BEEN FULLY INVESTIGATED. THIS IS A HUMAN SOURCE

INHALATION THE TOXICOLOGICAL PROPERTIES OF THIS SUBSTANCE HAS NOT BEEN FULLY INVESTIGATED.

CHRONIC NO INFORMATION FOUND.

4. FIRST AID MEASURES

4.1 EYES FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID.

4.2 SKIN GET MEDICAL AID. FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

4.3 INGESTION IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID.

4.4 INHALATION REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF



BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID.

4.5 FOR PHYSICIAN

TREAT SYMPTOMATICALLY AND

5. FIRE FIGHTING MEASURES

GENERAL INFORMATION

AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR

5.1 EXTINGUISHING MEDIA

FOR SMALL FIRES, USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE OR CHEMICAL FOAM

5.2 AUTOIGNITION TEMPERATURES

NOT AVAILABLE

5.3 FLASH POINT

NOT AVAILABLE

5.4 EXPLOSION LIMITS, LOWER

NOT AVAILABLE

5.5 EXPLOSION LIMITS, UPPER

NOT AVAILABLE

5.6 NFPA RATING

(ESTIMATED)

5.7 HEALTH

1; FLAMMABILITY: 0; INSTABILITY: 0

6. ACCIDENTAL RELEASE MEASURES

6.1 GENERAL INFORMATION

USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN SECTION 8

6.2 SPILLS/LEAKS

VACUUM OR SWEEP UP MATERIAL AND PLACE INTO A SUITABLE DISPOSAL CONTAINER. AVOID GENERATING DUSTY CONDITIONS

7. HANDLING AND STORAGE

7.1 HANDLING

USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN AND EYES. AVOID INGESTION AND INHALATION.

7.2 STORAGE

STORE IN A COOL, DRY PLACE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

USE ADEQUATE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS LOW.



CHEMICAL NAME	ACGIH	NIOSH	OSHA – FINAL ELS
WUXIZYME RCL	NONELISTED	NONE LISTED	NONE LISTED

8.2 OSHA VACATED PELS

8.3 WUXIZYME RCL NO OSHA VACATED PELS ARE LISTED FOR THIS CHEMICAL.

PERSONAL PROTECTIVE EQUIPMENT

EYES WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166

SKIN WEAR APPROPRIATE GLOVES TO PREVENT SKIN EXPOSURE

CLOTHING WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE

RESPIRATORS FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 PHYSICAL STATE LIQUID
- 9.2 COLOR COFFEE COLOR LIQUID
- 9.3 ODOR NO PECULIAR ODOR
- 9.4 PH NOT AVAILABLE
- 9.5 VAPOR PRESSURE NOT APPLICABLE
- 9.6 VAPOR DENSITY NOT APPLICABLE
- 9.7 EVAPORATION RATE NOT APPLICABLE
- 9.8 VISCOSITY NOT APPLICABLE
- 9.9 BOILING POINT NOT APPLICABLE
- 9.10 FREEZING/MELTING POINT NOT APPLICABLE



9.11	DECOMPOSITION TEMPERATURE	NOT APPLICABLE
9.12	SOLUBILITY IN WATER	SOLUBLE IN ANY RATE
9.13	SPECIFIC GRAVITY/DENSITY	1.2G/ML
9.14	MOLECULAR FORMULA	PROTEIN
9.15	MOLECULAR WEIGHT	NOT APPLICABLE

10. STABILITY AND REACTIVITY

10.1	CHEMICAL STABILITY	STABLE UNDER NORMAL TEMPERATURES AND PRESSURES
10.2	CONDITIONS TO AVOID	NONE REPORTED
10.3	INCOMPATIBILITIES WITH OTHER MATERIALS	NONE REPORTED
10.4	HAZARDOUS DECOMPOSITION PRODUCTS	NONE
10.5	HAZARDOUS POLYMERIZATION	HAS NOT BEEN REPORTED

11. TOXICOLOGICAL INFORMATION

RTECS#:

n CAS# 9012-54-8: BU7432500

LD50/LC50:

n CAS# 9012-54-8: ORAL, MOUSE: LD50 = >15 GM/KG; ORAL, RAT: LD50 = >7500 MG/KG.

CARCINOGENICITY: WUXIZYME RCL

ρNOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

EPIDEMIOLOGY NO DATA AVAILABLE

TERATOGENICITY NO DATA AVAILABLE

REPRODUCTIVE EFFECTS NO DATA AVAILABLE

NEUROTOXICITY NO DATA AVAILABLE

MUTAGENICITY NO DATA AVAILABLE

OTHER STUDIES NO DATA AVAILABLE

12. DISPOSAL CONSIDERATIONS

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. US EPA GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40CFR PARTS 261.3. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.



RCRA P-SERIES: NONE LISTED
RCRA U-SERIES: NONE LISTED

13. TRANSPORT INFORMATION

US DOT

n NO INFORMATION AVAILABLE

CANADIAN TDG

n NO INFORMATION AVAILABLE.

14. REGULATORY INFORMATION

US FEDERAL TSCA

n CAS# 9012-54-8 IS LISTED ON THE TSCA INVENTORY.

HEALTH & SAFETY REPORTING LIST

n NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST.

CHEMICAL TEST RULES

n NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE. SECTION 12B.

n NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B.

TSCA SIGNIFICANT NEW USE RULE.

n NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA.

SARA CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

n NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ. SARA.

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES.

n NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ. SECTION

313.

n NO CHEMICALS ARE REPORTABLE UNDER SECTION 313. CLEAN AIR ACT:

n THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR

POLLUTANTS.

n THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS.

n THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS.

CLEAN WATER ACT:

n NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA.

n NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY

POLLUTANTS UNDER THE CWA.

n NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER THE

CWA.

OSHA:

n NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA.

STATE

WUXIZYME RCL IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ. CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.



EUROPEAN/INTERNATIONAL REGULATIONS.
EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES.

- n HAZARD SYMBOLS: NOT AVAILABLE.
- n RISK PHRASES.
- n SAFETY PHRASES.
- n S 24/25 AVOID CONTACT WITH SKIN AND EYES. WGK (WATER DANGER/PROTECTION).
- n CAS#9012-54-8: 0.
- UNITED KINGDOM OCCUPATIONAL EXPOSURE LIMITS. UNITED KINGDOM MAXIMUM EXPOSURE LIMITS.
- CANADA
- n NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED ON THE DSL/NDSL LIST.
- n WHMIS: NOT AVAILABLE.
- n CAS# 9012-54-8 IS NOT LISTED ON CANADA'S INGREDIENT DISCLOSURE LIST.

15. OTHER INFORMATION

MSDS CREATION DATE FEB 2016

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