

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- T9020-4 L-TRYPTOPHAN, 99% --
6810-01-446-5533

===== Product Identification =====

Product ID:T9020-4 L-TRYPTOPHAN, 99%

MSDS Date:10/10/1995

FSC:6810

NIIN:01-446-5533

MSDS Number: CFLJD

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53201

C

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

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Country:US

Phone:414-273-3850

CAGE:60928

===== Composition/Information on Ingredients =====

Ingred Name:L-TRYPTOPHAN

CAS:73-22-3

RTECS #:YN6130000

Fraction by Wt: 99%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identificati

on =====

LD50 LC50 Mixture:ORAL, RAT LD50>16GM/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:MAY BE HARMFUL BY INHAL/INGEST/SKIN

ABSORPTION.MAY CAUSE EYE/SKIN IRRIT.FOOD/DRUG ADMIN & CENTER FOR
DISEASE CONTROL HAVE ESTABLISHED LINK BETWEEN L-TRYPTOPHAN &
SOMETIMES FATAL BLOOD DISORDER CALLED EOSINOPHILA-MYALGIA SYNDROME
WHICH IS MARKED BY SEVERE MUSCLE & JOINT P

AIN,SWELLING OF

ARMS/LEGS,SKIN RASH,(SUPPLEMENT)

Explanation of Carcinogenicity:PER MSDS:CARCINOGEN NO EVIDENCE.

Effects of Overexposure:SEE HEALTH HAZARDS SECTION ABOVE.

Medical Cond Aggravated by Exposure:NONE SPEC BY

MFG.TARORG:BEHAVIORAL(EXCITEMENT,ANTIANXIETY),LUNGS,THORAX,RESPIRAT
ION,KID/URETER,BLADDER(BLADDER

TUMORS),BLOOD(EOSINOPHILIA),MUSCULO-SKELETAL,SKIN/APPENDAGES,MATERN
AL EFFECTS,NUTR,TUMORG

===== First Aid Measures =====

First Aid:IN CASE OF CONTACT IMMED FLUSH EYE W/COPIOUS AMTS OF WATER
FOR @LEAST 15MINS.IN CASE OF CONTACT IMMED WASH SKIN W/SOAP/COPIOUS
AMTS OF WATER.IF INHAL REMOVE TO FRESH AIR.IF NOT BREATHING GIVE
ARTIFICI AL RESPIRATION.IF BREATHING IS DIFFICULT GIVE OXYGEN.IF
SWALLOWED WASH OUT MOUTH W/WATER PROVIDED PERSON IS CONSC.CALL
PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point:NON-COMBUSTIBLE

Lower Limits:NP

Upper Limits:NP

Extingu

ishing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR
APPROPRIATE FOAM.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS &
PROTECTIVE CLOTHING TO PREVENT CONTACT W/SKIN/EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR RESPIRATOR,CHEM SAF GOGGLES,RUBBER BOOTS
& HEAVY RUBBER GLOVES.SPILLED MATL SHOULD BE CAREFULLY WIPED UP OR
MOS

ITENED W/WATER AND REMOVE.VENTILATE AREA & WASH SPILL SITE AFTER
MATL PICKUP IS COMP LETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP TIGHTLY CLOSED.STORE IN COOL DRY
PLACE.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation:MECHANICAL EXHA

UST REQUIRED.

Protective Gloves:COMPATIBLE CHEM-RESIST GLVOES.

Eye Protection:CHEM SAF GOGGLES

Other Protective Equipment:SAF SHOWER & EYE BATH.

Work Hygienic Practices:WASH CONTAM CLOTH BEFORE REUSE.AVOID

INHAL/CONTACT W/EYE/SKIN/CLOTH.AVOID PROL/REP EXPO.WASH THOROUGHLY
AFTER HNDLG.

Supplemental Safety and Health

HEALTH:SOMETIMES FEVER.ITS CHARACTERIZED BY SEVERE EOSINOPHILLIA,A
BLOOD DISORDER IN WHICH WHITE BLOOD CELLS INCR TO ABNORMALLY HIGH
LEVEL.L-TRYPTOPHAN OCCURS NATURALL

Y IN MANY FOODS.INVESTIGATION HAS

NOT ESTABLISHED WHETHER IT OR IMPURITYINTRO DURING MFG OR
DISTRIBUTION IS CAUSE.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:536F,280C

Decomp Temp:Decomp Text:NP

Vapor Pres:NP

Vapor Density:NP

Spec Gravity:NP

pH:NP

Evaporation Rate & Reference:NP

Solubility in Water:NP

Appearance and Odor:WHITE POWDER

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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=== Stability and Reactivity Data =====

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:TOXIC FUMES OF CARBON MONOXIDE AND
CARBON DIOXIDE AND NITROGEN OXIDES.

===== Disposal Considerations =====

Waste Disposal Methods:DISSOLVE OR MIX MATL W/COMBUSTIBLE SOLVT & BURN
IN CHEM INCINERATOR EQUIPPED W/AFTERBURNER & SCRUBBER.OBSERVE ALL
FED/STATE/LOC ENVIRO REGS.

Disclai

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