

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

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

ZIP:53233

Country:US

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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 Identificat

ion =====

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 SERVERE MUSCLE & JOINT PAIN,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,ANTIAXIETY),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

Exting

ushing 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 MO

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

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Exposure Controls/Personal Protection
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Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation: MECHANICAL EXH

AUST 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 NATURAL

LY IN MANY FOODS. INVESTIGATION HAS

NOT ESTABLISHED WHETHER IT OR IMPURITY INTRO DURING MFG OR
DISTRIBUTION IS CAUSE.

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Physical/Chemical Properties
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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.

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