EXDL-ALANINEXX

##DL-ALANINE## ##DL-ALANINE## ##DL-ALANINE##

MATERIAL SAFETY DATA SHEET

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SUBSTANCE IDENTIFICATION

CAS-NUMBER 302-72-7

SUBSTANCE: ##DL-ALANINE##

TRADE NAMES/SYNONYMS:
ALANINE; DL-2-AMINOPROPANOIC ACID; DL-ALPHA-AMINOPROPIONIC ACID;
ALPHA ALANINE; ALPHA-AMINOPROPIONIC ACID; A-381;

CHEMICAL FAMILY: AMINE, ALIPHATIC

CARBOXYLIC ACID, ALIPHATIC

MOLECULAR FORMULA: C3-H7-02-N

MOLECULAR WEIGHT: 89.09

CERCLA RATINGS (SCALE 0-3): HEALTH:0 FIRE:0 REACTIVITY:0 PERSISTENCE:0
NFPA RATINGS (SCALE 0-4): HEALTH:0 FIRE:0 REACTIVITY:0
COMPONENTS AND CONTAMINANTS

COMPONENT: ALANINE

PERCENT: 100

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS: NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

PHYSICAL DATA

DESCRIPTION: WHITE CRYSTALLINE POWDER , BOILING POINT: 508 F (264 C) DECOM.

MELTING POINT: 653 F (295 C) SUBL SPECIFIC GRAVITY: 1,4

SOLUBILITY IN WATER: 167%

SOLVENT SOLUBILITY: ALCOHOL, INSOLUBLE IN ETHER

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD: NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FLASH POINT: NON-FLAMMABLE

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR STANDARD FOAM
(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5888, 4).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR STANDARD FOAM (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800, 4).

FIREFIGHTING:
NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING VAPORS OR DUSTS; KEEP UPWIND.

TOXICITY

CARCINOGEN STATUS: NONE.
ALANINE IS CONSIDERED TO HAVE A RELATIVELY LOW LEVEL OF TOXICITY.

HEALTH EFFECTS AND FIRST AID

INHALATION: D.L-ALANINE:

ACUTE EXPOSURE- NO DATA AVAILABLE.

CHRONIC EXPOSURE- NO DATA AVAILABLE.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY, IF BREATHING

##DL-ALANINE## PAGE 02 OF 03 HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION, KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY, GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

D, L-ALANINE: IRRITANT,

ACUTE EXPOSURE- CONTACT MAY CAUSE IRRITATION.

CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS.

TRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFEC AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL FIRST AID-WASH AFFECTED ATTENTION IMMEDIATELY,

EYE CONTACT:

D, L-ALANINE: IRRITANT

ACUTE EXPOSURE- CONTACT MAY CAUSE IRRITATION AND REDNESS.

CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE CONJUNCTIVITIS,

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

D, L-ALANINE: ACUTE EXPOSURE- NO DATA AVAILABLE.

CHRONIC EXPOSURE- NO DATA AVAILABLE.

RST AID- GIVE LARGE QUANTITIES OF WATER AND INDUCE VOMITING. DO NOT MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK ANYTHING. GET MEDICAL ATTENTION.

NO SPECIFIC ANTIDOTE, TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY

EACTIVITY:

TABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

NONE KNOWN.

DECOMPOSITION:

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF NITROGEN.

POLYMERIZATION:

HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:

NO SPECIAL PRECAUTIONS INDICATED.

PROTECTIVE EQUIPMENT

VENTILATION: PROVIDE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION SYSTEM.

RESPIRATOR:

HIGH LEVELS- SUPPLIED-AIR RESPIRATOR, SELF-CONTAINED BREATHING APPARATUS.

FIREFIGHTING- SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING: PROTECTIVE CLOTHING NOT REQUIRED. AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

GLOVES: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

/E PROTECTION: EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACESHIELD TO PREVENT CONTACT WITH THIS SUBSTANCE, CONTACT LENSES SHOULD NOT BE WORN

EMERGENCY WASH FACILITIES: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

AUTHORIZED - FISHER SCIENTIFIC GROUP, INC.

DL-ALANINE
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