MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- --- --- ---
CATALOG #: W292435
NAME: PROPIONIC ACID, 99%, FCC

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- ---
CAS #: None
EC NO: 201-176-3
SYNONYMS
ACIDE PROPIONIQUE (FRENCH) * CARBOXYETHANE * ETHANE CARBOXYLIC ACID *
ETHYLFORMIC ACID * KYSELINA PROPONOVA (CZECH) * LUPROSIL *
METACETIC ACID * METHYL ACETIC ACID * PROPANOIC ACID * PROPIONIC ACID (ACGH) * PROPIONIC ACID GRAIN PRESERVER * PROZIN *
PSEUDOCETIC ACID * SENTRY GRAIN PRESERVER * TENOX P GRAIN
PRESERVATIVE *

SECTION 3. --- --- --- --- --- --- --- HAZARDS IDENTIFICATION --- --- --- --- ---

LABEL PRECAUTIONARY STATEMENTS
COMBUSTIBLE (USA)
FLAMMABLE (EU)
CORROSIVE
FLAMMABLE.
HARMFUL IN CONTACT WITH SKIN.
CAUSES BURNS.
READILY ABSORBED THROUGH SKIN.
COMBUSTIBLE LIQUID.
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
DO NOT BREATHE VAPOR.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

SECTION 4. --- --- --- --- --- --- --- FIRST-AID MEASURES--- --- --- --- --- --- --- ---
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
DO NOT INDUCE VOMITING.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IN CASE OF SKIN CONTACT, FLUSH WITH copious AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
IN CASE OF CONTACT WITH EYES, FLUSH WITH copious AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. --- --- --- --- --- --- --- FIRE FIGHTING MEASURES --- --- --- --- --- --- ---
EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
COMBUSTIBLE LIQUID.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. --- --- --- --- --- --- --- ACCIDENTAL RELEASE MEASURES--- --- --- --- --- --- --- ---
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -

PHYSICAL PROPERTIES

BOILING POINT: 141 C
MELTING POINT: -24 -23 C
FLASHPOINT 125F
51.66C

EXPLOSION LIMITS IN AIR:
UPPER
12.1 %
LOWER
2.9 %

SECTION 10. - - - - - - STABILITY AND REACTIVITY - - - - - -

STABILITY
STABLE.

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - - - TOXICOLOGICAL INFORMATION - - - - - -

ACUTE EFFECTS

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

CAUSES BURNS.

HARMFUL IF ABSORBED THROUGH SKIN.

READILY ABSORBED THROUGH SKIN.

MAY BE HARMFUL IF INHALED.

MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

MAY BE HARMFUL IF SWALLOWED.

RTECS #: UE5950000

PROPIONIC ACID

IRRITATION DATA
SKN-RBT 495 MG OPEN SEV
EYE-RBT 990 UG SEV

TOXICITY DATA
ORL-RAT LD50: 2600 MG/KG
FAONAU 53A, 110, 1974

UCDS** 3/24/1970
UCDS** 3/24/1970
PAR-RAT LD50: 3500 MG/KG
UNR-RAT LD50: 1510 MG/KG
IVN-MUS LD50: 625 MG/KG
UNR-MUS LD50: 1370 MG/KG
SKN-RBT LD50: 500 UL/KG
UNR-RBT LD50: 1900 MG/KG
ORL-MAM LD50: 1640 MG/KG

DEVEAA 26.5, 1972
GISAAA 35(3), 96, 1970
APTOA6 18, 141, 1961
GISAAA 35(3), 96, 1970
AIHAAP 23, 95, 1962
GISAAA 35(3), 96, 1970
GISAAA 39(4), 86, 1974

TARGET ORGAN DATA
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
LUNGS, THORAX OR RESPIRATION (DYSPNÆA)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. - - - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - - - -
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
THIS MATERIAL.
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - - - - - - TRANSPORT INFORMATION - - - - - - - - -
CONTACT ALCORCHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - - - - REGULATORY INFORMATION - - - - - - - - -

EUROPEAN INFORMATION
EC INDEX NO: 607-089-00-0
FLAMMABLE
CORROSIVE
R 34
CAUSES BURNS.
S 23
DO NOT BREATHE VAPOR.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

REVIEW: STANDARDS, AND REGULATIONS

OEL=MAK
ACGIH TLV-TWA 10 PPM
DTLV* TLV/BEI, 1999
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FERBAC 54, 7740, 1989
OEL-AUSTRALIA: TWA 10 PPM (30 MG/M3), STEL 15 PPM, JAN1993
OEL-AUSTRIA: MAK 10 PPM (30 MG/M3), JAN1999
OEL-BELGIUM: TWA 10 PPM (30 MG/M3), STEL 15 PPM, JAN1993
OEL-DENMARK: TWA 10 PPM (30 MG/M3), JAN1999
OEL-FINLAND: TWA 10 PPM, SKIN, JAN1999
OEL-FRANCE: VME 10 PPM (30 MG/M3), JAN1999
OEL-GERMANY: MAK 10 PPM (30 MG/M3), JAN1999
OEL-THE NETHERLANDS: MAC-TGG 10 PPM (55 MG/M3), JAN1999
OEL-NORWAY: TWA 10 PPM (30 MG/M3), JAN1999
OEL-RUSSIA: STEL 20 MG/M3, JAN1993
OEL-SWEDEN: NUV 10 PPM (30 MG/M3), KTV 15 PPM (45 MG/M3), JAN1999
OEL-SWITZERLAND: MAK-W 10 PPM (30 MG/M3), KZG-W 20 PPM (60 MG/M3),
JAN1999
OEL-UNITED KINGDOM: TWA 10 PPM (31 MG/M3), STEL 15 PPM (46 MG/M3),
SEP2000
OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO PROPIONIC ACID-AIR: 10H TWA 10 PPM; STEL 15 PPM
NIOSH* DHHS #92-100, 1992
NOHS 1974: HZD 62460; NIS 9; TNF 429; NOS 19; TNE 8081
NOES 1983: HZD 62460; NIS 30; TNF 1411; NOS 42; TNE 31092; TFE 8489
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0892-9234
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001
SECTION 16. OTHER INFORMATION

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