



chemists helping chemists in research & industry

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DATE: 07/27/93
CUST#: 938609
PO#: P0074850

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 1

I D E N T I F I C A T I O N

PRODUCT #: 13310-8
CAS #: 109-60-4
MF: C5H10O2

NAME: PROPYL ACETATE, 99%

S Y N O N Y M S

ACETATE DE PROPYLE NORMAL (FRENCH) * ACETIC ACID N-PROPYL ESTER * 1-
ACETOXYPROPANE * OCTAN PROPYL (POLISH) * PROPYL ACETATE * N-PROPYL
ACETATE * 1-PROPYL ACETATE * N-PROPYL ACETATE (ACGIH, OSHA) * PROPYL
ACETATE (DOT) * PROPYLESTER KYSELINY OCTOVE (CZECH) * UN 1276 (DOT) *

T O X I C I T Y H A Z A R D S

RTECS #: AJ3675000

ACETIC ACID, PROPYL ESTER

I R R I T A T I O N D A T A

SKN-RBT 500 MG OPEN MLD
EYE-RBT 500 MG/24H MLD

UCDS** 1/25/65
85JCAE -,355,86

T O X I C I T Y D A T A

ORL-RAT LD50:9370 MG/KG
ORL-MUS LD50:8300 MG/KG
IPR-MUS LD50:1420 MG/KG
ORL-RBT LD50:6640 MG/KG
SKN-RBT LD50:>20 GM/KG

FCTXAV 2,327,64
FCTXAV 2,327,64
SCCUR* -,8,61
IMSUA I 41,31,72
UCDS** 1,25,65

R E V I E W S , S T A N D A R D S , A N D R E G U L A T I O N S

ACGIH TLV-TWA 200 PPM; STEL 250 PPM 85INAB 5,500,86
MSHA STANDARD-AIR:TWA 200 PPM (840 MG/M3) DTLVS* 3,216,71
OSHA PEL:8H TWA 200 PPM (840 MG/M3) FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 200 PPM (840 MG/M3);STEL 250 PPM (1050 MG/M3)
FEREAC 54,2923,89
OEL-AUSTRALIA:TWA 200 PPM (840 MG/M3);STEL 250 PPM (1050 MG/M3)
JANUARY 1993
OEL-BELGIUM:TWA 200 PPM (835 MG/M3);STEL 250 PPM (1040 MG/M3) JANUARY
1993
OEL-CZECHOSLOVAKIA:TWA 400 MG/M3;STEL 1600 MG/M3 JANUARY 1993
OEL-DENMARK:TWA 200 PPM (840 MG/M3) JANUARY 1993
OEL-FINLAND:TWA 200 PPM (840 MG/M3);STEL 250 PPM (1050 MG/M3) JANUARY
1993
OEL-FRANCE:TWA 200 PPM (840 MG/M3) JANUARY 1993
OEL-GERMANY:TWA 200 PPM (840 MG/M3) JANUARY 1993
OEL-HUNGARY:TWA 200 MG/M3;STEL 600 MG/M3;SKIN JANUARY 1993
OEL-JAPAN:TWA 200 PPM (830 MG/M3) JANUARY 1993
OEL-THE NETHERLANDS:TWA 200 PPM (840 MG/M3) JANUARY 1993
OEL-THE PHILIPPINES:TWA 200 PPM (840 MG/M3) JANUARY 1993

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M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 3

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PRODUCT #:

MF: C5H10O2

NAME: PROPYL ACETATE, 99%

H E A L T H H A Z A R D D A T A

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

P H Y S I C A L D A T A

BOILING POINT: 102 C
MELTING POINT: -95 C
SPECIFIC GRAVITY: 0.888
VAPOR DENSITY: 3.5
VAPOR PRESSURE: 25 MM @ 20 C

APPEARANCE AND ODOR
COLORLESS LIQUID

F I R E A N D E X P L O S I O N H A Z A R D D A T A

FLASHPOINT: 55 F
AUTOIGNITION TEMPERATURE: 842 F
LOWER EXPLOSION LEVEL: 1.7% @ 37 C
UPPER EXPLOSION LEVEL: 8%

E X T I N G U I S H I N G M E D I A

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

S P E C I A L F I R E F I G H T I N G P R O C E D U R E S

WARNING:
FLAMMABLE LIQUID.
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

U N U S U A L F I R E A N D E X P L O S I O N S H A Z A R D S

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

R E A C T I V I T Y D A T A

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NAME: PROPYL ACETATE, 99%

REACTIVITY DATA

INCOMPATIBILITIES
OXIDIZING AGENTS
BASES
ACIDS
MOISTURE
HEAT

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
NIOSH/MSHA-APPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
USE NONSPARKING TOOLS.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.

CONTINUED ON NEXT PAGE

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P R E C A U T I O N S T O B E T A K E N I N H A N D L I N G A N D S T O R A G E

KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.
L A B E L P R E C A U T I O N A R Y S T A T E M E N T S
FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)
IRRITANT
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.
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.

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PAGE 2

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PRODUCT #:

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NAME: PROPYL ACETATE, 99%

T O X I C I T Y H A Z A R D S

DEL POLAND: TWA 200 MG/M3 JANUARY 1993
DEL RUSSIA: TWA 200 PPM; STEL 200 MG/M3 JANUARY 1993
DEL SWITZERLAND: TWA 200 PPM (840 MG/M3); STEL 400 PPM (1680 MG/M3)
JANUARY 1993
DEL TURKEY: TWA 200 PPM (840 MG/M3) JANUARY 1993
DEL UNITED KINGDOM: TWA 200 PPM (840 MG/M3); STEL 250 PPM (1050 MG/M3)
JANUARY 1993
DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,
VIETNAM CHECK ACGIH TLV
NIOSH REL TO N-PROPYL ACETATE-AIR: 10H TWA 200 PPM; STEL 250 PPM NIOSH*
DHHS #92-100,92
NOHS 1974: HZD 63265; NIS 38; TNF 1960; NOS 48; TNE 32970
NOES 1983: HZD 63265; NIS 34; TNF 3859; NOS 42; TNE 46856; TFE 11660
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993
NIOSH ANALYTICAL METHODS: SEE ESTERS I, 1450
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

H E A L T H H A Z A R D D A T A

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
PROLONGED EXPOSURE CAN CAUSE:
NAUSEA, HEADACHE AND VOMITING
NARCOTIC EFFECT

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

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