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MATERIAL SAFETY DATA SHEET PAGE	T
SECTION 1 CHEMICAL IDENTIFICATION	
CATALOG #: E1570-1 NAME: ETHYL BUTYRATE, 99%	
SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS	
CAS #: 105-54-4 MF: C6H12O2 EC NO: 203-306-4	
SYNONYMS BUTANOIC ACID ETHYL ESTER * BUTYRIC ETHER * ETHYL BUTANOATE * ETHYL BUTYRATE (DOT) * ETHYL N-BUTYRATE * UN1180 (DOT) *	
SECTION 3 HAZARDS IDENTIFICATION	
LABEL PRECAUTIONARY STATEMENTS FLAMMABLE (USA) HIGHLY FLAMMABLE (EU) IRRITANT IRRITANT IRRITANT IRRITANT IRRITANT IRRITANT	
TRRITATING 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. KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE. REFRIGERATE.	
SECTION 4 FIRST-AID MEASURES	
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. FLUSH SKIN WITH WATER.	
IF INHALED, REMOVE TO FRESH AIR. IF SWALLDWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.	
SECTION 5 FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM. WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.	
SPECIAL FIREFIGHTING PROCEDURES	
CONTINUED ON NEXT PAGE	

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MATERIAL SAFETY DATA SHEET PAGE 2

CATALOG #: NAME:

E1570-1 ETHYL BUTYRATE, 99%

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

USUAL FIRE AND EXPLOSIONS HAZARDS
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

SECTION 6. - -- - - ACCIDENTAL RELEASE MEASURES-

OFF ALL SOURCES OF IGNITION.
SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY SHUT WEAR GLOVES. RUBBER 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.

SECTION 7. -- - HANDLING AND STORAGE-

REFER TO SECTION 8.

- - - EXPOSURE CONTROLS/PERSONAL PROTECTION- -

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
MECHANICAL EXHAUST REQUIRED.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

SECTION 9. - - -PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR COLORLESS LIQUID

PHYSICAL PROPERTIES BOILING POINT: MELTING POINT: FLASHPOINT

-93 C

AUTOIGNITION TEMPERATURE:

67 F

865 F

462C

CONTINUED ON NEXT PAGE

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MATERIAL SAFETY DATA SHEET

HATERIAL SAFETT DATA SHEET

PAGE 3

CATALOG #:

E1570-1

ETHYL BUTYRATE, 99%

VAPOR PRESSURE: SPECIFIC GRAVITY: VAPOR DENSITY:

15.5MM 25 C 0.878

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

INCOMPATIBILITIES OXIDIZING AGENTS BASES ACIDS HEAT

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

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

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.

RTECS #: ET1660000 BUTYRIC ACID, ETHYL ESTER

IRRITATION DATA SKN-RBT 500 MG/24H MOD

FCTXAV 12,719,74

TOXICITY DATA

ORL-RAT LD50:13 GM/KG

ORL-RBT LD50:5228 MG/KG

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

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

DBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

CONTINUED ON NEXT PAGE



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CATALOG #:

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TRANSPORT INFORMATION -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

- REGULATORY INFORMATION -SECTION 15. - - -

EUROPEAN INFORMATION
HIGHLY FLAMMABLE
IRRITANT
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
HIGHLY FLAMMABLE

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. S 3/7/9

KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK
NOHS 1974: HZD 83190; NIS 5; TNF 126; NOS 29; TNE 5043
NOES 1983: HZD 83190; NIS 30; TNF 4209; NOS 45; TNE 336
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996 TNE 33645; TFE 10782

SECTION 16. - -- - - OTHER INFORMATION- - -

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