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BIOCHEMICALS AND DIAGNOSTIC REAGENTS

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POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

FAX: USA/CANADA 1-800-325-5052 OUTSIDE USA/CANADA 314-771-5757
TELEX: 910-761-0593 or 434475 ANSWERBACK "SIG OK COLLECT"

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OUTSIDE USA/CANADA call COLLECT 314-771-5750

ATTN: SAFETY DIRECTOR
SCHOOLCRAFT COLLEGE
18600 HAGGERTY ROAD
LIVONIA MI 48152-3932

EMERGENCY PHONE 1-314-771-5765

DATE: 08/29/95
CUST#: 2-043-15940
PO#: 80407

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

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

PRODUCT #: H6511 NAME: 3-HEPTANONE

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 106-35-4
MF: C7H14O1

SYNONYMS

AETHYLBUTYLKETON (GERMAN) * BUTYL ETHYL KETONE * N-BUTYL ETHYL KETONE
* EPTAN-3-ONE (ITALIAN) * ETHYLBUTYLKETONE (FRENCH) * ETHYLBUTYLKETON
(DUTCH) * ETHYL BUTYL KETONE (ACGIH, OSHA) * ETILBUTILCHETONE (ITALIAN)
* HEPTAN-3-ON (DUTCH, GERMAN) * HEPTAN-3-ONE * 3-HEPTANONE (OSHA) *

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

LABEL PRECAUTIONARY STATEMENTS

COMBUSTIBLE (USA DEFINITION)
FLAMMABLE (EUROPEAN DEFINITION)
IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

MAY FORM EXPLOSIVE PEROXIDES.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

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.

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

CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA-ALDRICH
VERTRIEBS GmbH
Grünwalder Weg 30
82041 Deisenhofen
Deutschland

SIGMA-ALDRICH QUIMICA, S.A. SIGMA-ALDRICH S.r.l.
Apt. Correo 161
28100 Alcobendas
(Madrid)
España

SIGMA CHIMIE
L'ISLE D'Abeau Chesnes
B.P. 701
38297 St. Quentin Fallavier
Cedex
France

SIGMA-ALDRICH S.r.l. SIGMA-ALDRICH PTY., LIMITED
Via Gallarate 154
20151 Milano
Italia

Unit 2, 10 Anella Ave.
Castle Hill NSW 2154
Australia

SIGMA CHEMIE
K. Cardinplein, 8
B-2880 Bornem
België/Belgique

SIGMA-ALDRICH CHEMICAL
REPRESENTAÇÕES LTDA.
Rua Sabará, 566 - Conj. 53
01239-010 São Paulo, SP
Brasil

SIGMA CHEMIE
P.O. Box 260
CH-9470 Buchs
Switzerland

SIGMA CHEMICAL CO. LTD.
Fancy Road, Poole
Dorset BH17 7NH
England

SIGMA-ALDRICH QUIMICA, S.A. de C.V.
Avenida Picacho Ajusco No. 130-303
Fraccionamiento Jardines en la Montaña
14210 Mexico, D.F.

SIGMA-ALDRICH CORPORATION
New Delhi Location
B-4/158, Saldarjung Enclave
New Delhi - 110 029
India

SIGMA-ALDRICH KR
Teréz krt. 39
1067 Budapest
Hungary

SIGMA-ALDRICH
206 Samhan Campus Building
17-3 Yoido-dong Yungdeungpo-ku
Seoul
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CUST#: 2-043-15940
PO#: 80407

PRODUCT #: H6511
MF: C7H14O1

NAME: 3-HEPTANONE

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
COMBUSTIBLE.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.

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

EVACUATE AREA.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -
REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

CHEMICAL SAFETY GOGGLES.

RUBBER GLOVES.

NIOSH/MSHA-APPROVED RESPIRATOR.

SAFETY SHOWER AND EYE BATH.

MECHANICAL EXHAUST REQUIRED.

DO NOT BREATHE VAPOR.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

IRRITANT.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT AND OPEN FLAME.

STORE IN A COOL DRY PLACE.

FORMS EXPLOSIVE PEROXIDES ON PROLONGED STORAGE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR

CONTINUED ON NEXT PAGE

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SIGMA-ALDRICH
VERTRIEBS GmbH
Grünwalder Weg 30
82041 Deisenhofen
Deutschland

SIGMA-ALDRICH QUIMICA, S.A.
Apt. Correos 161
28100 Alcobendas
(Madrid)
España

SIGMA-ALDRICH S.r.l.
Via Gallarate 154
20151 Milano
Italia

SIGMA-ALDRICH PTY., LIMITED
Unit 2, 10 Anella Ave.
Castle Hill NSW 2154
Australia

SIGMA CHEMIE
K. Cardijnplein, 8
B-2980 Bornem
Belgie/Belgique

SIGMA-ALDRICH CHEMICAL
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Rua Sabará, 566 - Conj. 53
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Brasil

SIGMA CHEMIE
P.O. Box 260
CH-9470 Buchs
Switzerland

SIGMA-ALDRICH QUIMICA, S.A. de C.V.
Avenida Picacho Ajusco No. 130-303
Fraccionamiento Jardines en la Montaña
14210 Mexico, D.F.

SIGMA CHEMICAL CO. LTD.
Fancy Road, Poole
Dorset BH17 7NH
England

SIGMA-ALDRICH KR
Teréz krt. 39
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8-A/158, Sakdajung Enclave
New Delhi - 110 029
India

SIGMA-ALDRICH
206 Samhan Campus Building
17-3 Yoido-dong Yungdeungpo-ku
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L'ISLE D'Abau Chesnes
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PRODUCT #: H6511
MF: C7H14O1

NAME: 3-HEPTANONE

COLORLESS LIQUID
BOILING POINT: 146 C TO 149 C
MELTING POINT: -39 C
FLASHPOINT 106 F
41C
SPECIFIC GRAVITY: 0.818

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

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS
STRONG REDUCING AGENTS
STRONG BASES

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.
EXPOSURE CAN CAUSE:
NAUSEA, DIZZINESS AND HEADACHE

RTECS NO: MJ5250000

3-HEPTANONE

IRRITATION DATA

SKN-RBT 500 MG OPEN MLD
SKN-RBT 500 MG/24H MOD
EYE-RBT 100 MG MLD
EYE-RBT 500 MG/24H MLD

UCDS** 3/12/69
FCTXAV 16,731,78
FCTXAV 16,731,78
85JCAE -,286,86

TOXICITY DATA

ORL-RAT LD50:2760 MG/KG
SKN-RBT LD50:>20 ML/KG

JHTAB 31,60,49
UCDS** 3/12/69

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 - - - - -

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BRANCH OFFICES AT:

SIGMA-ALDRICH VERTRIEBS GmbH Grünwälder Weg 30 82041 Dalsenhausen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 181 28100 Alcobendas (Madrid) España	SIGMA-ALDRICH S.r.l. Via Gallarate 154 20151 Milano Italia	SIGMA-ALDRICH PTY., LIMITED Unit 2, 10 Anella Ave. Castle Hill NSW 2154 Australia	SIGMA-ALDRICH CHEMICAL REPRESENTAÇÕES LTDA. Rua Sabará, 566 - Conj. 53 01239-010 São Paulo, SP Brasil	SIGMA-ALDRICH CHEMICAL SIGMA-ALDRICH PTY., LIMITED Fancy Road, Poole Dorset BH17 7NH England	SIGMA-ALDRICH QUIMICA, S.A. de C.V. Avenida Picacho Ajusco No. 130-303 Fraccionamiento Jardines en la Montaña 14210 Mexico, D.F.	SIGMA-ALDRICH CORPORATION New Delhi Location B-4/158, Sardarjung Enclave New Delhi - 110 029 India	SIGMA-ALDRICH 206 Samhan Campus Building 17-3 Yoido-dong Yungdeungpo-ku Seoul South Korea
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MF: C7H1401

NAME: 3-HEPTANONE

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR
EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

REVIEWS, STANDARDS, AND REGULATIONS

85INA8 6,592,91

ACGIH TLV-TWA 50 PPM
MSHA STANDARD-AIR:TWA 50 PPM (230 MG/M3)
DTLVS* 3,105,71
OSHA PEL (GEN INDU):8H TWA 50 PPM (230 MG/M3)
CFRGBR 29,1910.1000,94
OSHA PEL (CONSTRUC):8H TWA 50 PPM (230 MG/M3)
CFRGBR 29,1926.55,94
OSHA PEL (SHIPYARD):8H TWA 50 PPM (230 MG/M3)
CFRGBR 29,1915.1000,93
OSHA PEL (FED CONT):8H TWA 50 PPM (230 MG/M3)
CFRGBR 41,50-204.50,94
OEL-AUSTRALIA:TWA 50 PPM (230 MG/M3) JAN93
OEL-BELGIUM:TWA 50 PPM (234 MG/M3) JAN93
OEL-DENMARK:TWA 50 PPM (230 MG/M3) JAN93
OEL-FINLAND:TWA 50 PPM (230 MG/M3);STEL 75 PPM (345 MG/M3) JAN93
OEL-FRANCE:TWA 50 PPM (230 MG/M3) JAN93
OEL-THE NETHERLANDS:TWA 50 PPM (230 MG/M3) JAN93
OEL-THE PHILIPPINES:TWA 50 PPM (230 MG/M3) JAN93
OEL-SWITZERLAND:TWA 50 PPM (230 MG/M3) JAN93
OEL-UNITED KINGDOM:TWA 50 PPM (230 MG/M3);STEL 75 PPM JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO ETHYL BUTYL KETONE-AIR:10H TWA 50 PPM
NIOSH* DHHS #92-100,92
NOHS 1974: HZD 36330; NIS 8; TNF 320; NQS 14; TNE 1923

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SIGMA-ALDRICH
VERTRIEBS GmbH
Grünwalder Weg 30
82041 Deisenhofen
Deutschland

SIGMA-ALDRICH QUIMICA, S.A. SIGMA-ALDRICH s.r.o.
Apt. Correos 161 Krizikova 27
28100 Alcobendas 186 00 Praha 8
(Madrid) Ceska Republika
Espana

SIGMA CHEM
K. Cardijnplein, 8
B-2880 Bornem
België/Belgique

SIGMA CHEMICALS
P.O. Box 260
CH-9470 Buchs
Switzerland

SIGMA-ALDRICH QUIMICA, S.A. de C.V.
Avenida Picacho Ajusco No. 130-303
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L'ISLE D'Abeau Chesnes
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38297 St. Quentin Fallavier
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20151 Milano
Italia

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4108

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MF: C7H14O1

NAME: 3-HEPTANONE

NOES 1983: HZD 36330; NIS 20; TNF 2103; NOS 9; TNE 11318; TFE 1164
EPA TSCA SECTION 8(8) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1995
NIOSH ANALYTICAL METHOD, 1994: KETONES II, 1301

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

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