



chemists helping chemists in research & industry

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DATE: 07/20/94
CUST#: 938609
PO#: P0077512

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 #: 17919-1 NAME: **CYCLOHEXANE, 99+%, A.C.S. REAGENT**

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

CAS #: 110-82-7
MF: C₆H₁₂

SYNONYMS

BENZENE, HEXAHYDRO- * CICLOESANO (ITALIAN) * CYCLOHEXAAN (DUTCH) *
CYCLOHEXAN (GERMAN) * CYCLOHEXANE (ACGIH, DOT, OSHA) * CYKLOHEKSAN
(POLISH) * HEXAHYDROBENZENE * HEXAMETHYLENE * HEXANAPHTHENE * RCRA
WASTE NUMBER U056 * UN1145 (DOT) *

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)

HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

HARMFUL

HARMFUL BY INHALATION AND IF SWALLOWED.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

TARGET ORGAN(S):

LUNGS

CENTRAL NERVOUS SYSTEM

KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

KEEP CONTAINER IN A WELL VENTILATED PLACE.

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

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

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.

CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED
IRRIGATION WITH COPIOUS AMOUNTS OF WATER.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

CONTINUED ON NEXT PAGE

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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 2

CUST#: 938609
PO#: P0077512

PRODUCT #: 179191
MF: C6H12

NAME: CYCLOHEXANE, 99+%, A.C.S. REAGENT

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

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

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

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

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

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.

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

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
MECHANICAL EXHAUST REQUIRED.

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PAGE 3

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PRODUCT #: 179191
MF: C6H12

NAME: CYCLOHEXANE, 99+%, A.C.S. REAGENT

SAFETY SHOWER AND EYE BATH.
USE NONSPARKING TOOLS.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
HARMFUL LIQUID.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE UNDER NITROGEN.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR

COLORLESS LIQUID

BOILING POINT: 80.7 C

MELTING POINT: 6.5 C

FLASHPOINT -1 F

- 18C

AUTOIGNITION TEMPERATURE: 500 F 259C

UPPER EXPLOSION LEVEL: 9%

LOWER EXPLOSION LEVEL: 1%

VAPOR PRESSURE: 77MM 20 C 168.8MM 37.7 C

VAPOR DENSITY: 2.9

SPECIFIC GRAVITY: 0.779

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

INCOMPATIBILITIES

OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

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

ACUTE EFFECTS

CONTINUED ON NEXT PAGE

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PAGE 4

CUST#: 938609
PO#: P0077512

PRODUCT #: 179191
MF: C6H12

NAME: CYCLOHEXANE, 99+%, A.C.S. REAGENT

HARMFUL IF INHALED OR SWALLOWED.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
EXPOSURE CAN CAUSE:
LUNG IRRITATION, CHEST PAIN AND EDEMA WHICH MAY BE FATAL.
GASTROINTESTINAL DISTURBANCES
TARGET ORGAN(S):
LUNGS
NERVES

RTECS NO: GU6300000

CYCLOHEXANE

IRRITATION DATA

SKN-RBT 1548 MG/20-1

JIHTAB 25,199,43

TOXICITY DATA

ORL-RAT LD50:12705 MG/KG

TXAPA9 19,699,71

ORL-MUS LD50:813 MG/KG

NPIRI* 1,17,74

IHL-MAM LC50:70 GM/M3

GTPZAB 32(10),25,88

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.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

CONTINUED ON NEXT PAGE

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PAGE 5

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NAME: CYCLOHEXANE, 99+%, A.C.S. REAGENT

REVIEWS, STANDARDS, AND REGULATIONS

85INA8 6,355,91

ACGIH TLV-TWA 300 PPM
MSHA STANDARD-AIR: TWA 300 PPM (1050 MG/M3)
DTLVS* 3,65,71
OSHA PEL: 8H TWA 300 PPM (1050 MG/M3)
FEREAC 54,2923,89
OSHA PEL FINAL: 8H TWA 300 PPM (1050 MG/M3)
FEREAC 54,2923,89
OEL-AUSTRALIA: TWA 300 PPM (1050 MG/M3) JAN93
OEL-AUSTRIA: TWA 300 PPM (1050 MG/M3) JAN93
OEL-BELGIUM: TWA 300 PPM (1030 MG/M3) JAN93
OEL-DENMARK: TWA 300 PPM (1050 MG/M3) JAN93
OEL-FINLAND: TWA 300 PPM (1050 MG/M3); STEL 375 PPM (1315 MG/M3) JAN93
OEL-FRANCE: TWA 300 PPM (1050 MG/M3); STEL 375 PPM (1300 MG/M3) JAN93
OEL-GERMANY: TWA 300 PPM (1050 MG/M3) JAN93
OEL-HUNGARY: TWA 500 MG/M3; STEL 1000 MG/M3 JAN93
OEL-JAPAN: TWA 150 PPM (520 MG/M3) JAN93
OEL-THE NETHERLANDS: TWA 300 PPM (1050 MG/M3) JAN93
OEL-THE PHILIPPINES: TWA 300 PPM (1050 MG/M3) JAN93
OEL-POLAND: TWA 80 MG/M3 JAN93
OEL-RUSSIA: TWA 150 PPM; STEL 80 MG/M3 JAN93
OEL-SWEDEN: TWA 300 PPM (1000 MG/M3); STEL 370 PPM (1300 MG/M3) JAN93
OEL-SWITZERLAND: TWA 300 PPM (1050 MG/M3); STEL 600 PPM JAN93
OEL-TURKEY: TWA 300 PPM (1050 MG/M3) JAN93
OEL-UNITED KINGDOM: TWA 300 PPM (1050 MG/M3); STEL 375 PPM JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO CYCLOHEXANE-AIR: 10H TWA 300 PPM
NIOSH* DHHS #92-100,92
NOHS 1974: HZD 21190; NIS 117; TNF 14841; NOS 74; TNE 125761
NOES 1983: HZD 21190; NIS 30; TNF 2021; NOS 53; TNE 51607; TFE 13533
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; HISTIDINE
REVERSION-AMES TEST
EPA TSCA CHEMICAL INVENTORY, JUNE 1993
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1994
NIOSH ANALYTICAL METHODS: SEE HYDROCARBONS, BP 36-126 C, 1500
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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PAGE 6

PRODUCT #: 179191
MF: C6H12

NAME: CYCLOHEXANE, 99+%, A.C.S. REAGENT

CUST#: 938609
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