



chemists helping chemists in research & industry

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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 1

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

CATALOG #: 14714-1
NAME: NAPHTHALENE, 99%

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

CAS #: 91-20-3
MF: C10H8
EC NO: 202-049-5

SYNONYMS

ALBOCARBON * CAMPHOR TAR * MIGHTY 150 * MIGHTY RD1 * MOTH BALLS *
MOTH FLAKES * NAFTALEN (POLISH) * NAPHTHALENE (ACGIH:DOT:OSHA) *
NAPHTHALENE, CRUDE OR REFINED (UN1334) (DOT) * NAPHTHALENE, MOLTEN
(UN2304) (DOT) * NAPHTHALIN * NAPHTHALINE * NAPHTHENE * NCI-C52904 *
RCRA WASTE NUMBER U165 * TAR CAMPHOR * UN1334 (DOT) * UN2304 (DOT) *
WHITE TAR *

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA)
HIGHLY FLAMMABLE (EU)
TOXIC
MAY CAUSE CANCER.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
TARGET ORGAN(S):
BLOOD
EYES
KIDNEYS
LUNGS
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
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.
HYGROSCOPIC

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
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

CATALOG #: 14714-1
NAME: NAPHTHALENE, 99%

AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
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.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.

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

EXTINGUISHING MEDIA
CARBON DIOXIDE.
DRY CHEMICAL POWDER.
FOAM AND WATER SPRAY ARE EFFECTIVE BUT MAY CAUSE FROTHING.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
FLAMMABLE SOLID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
THIS MATERIAL, LIKE MOST MATERIALS IN POWDER FORM, IS CAPABLE OF CREATING A DUST EXPLOSION.

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

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
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.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE DUST.
AVOID CONTACT WITH FUMES.

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PAGE 3

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DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CARCINOGEN.
TOXIC.
IRRITANT.
SENSITIZER.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
HYGROSCOPIC
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
WHITE CRYSTALLINE FLAKES

PHYSICAL PROPERTIES
BOILING POINT: 218 C
MELTING POINT: 80 C TO 82 C
FLASHPOINT: 174 F
78C

EXPLOSION LIMITS IN AIR:
UPPER 5.9%
LOWER 0.9%
AUTOIGNITION TEMPERATURE: 978 F 525C
VAPOR PRESSURE: 0.03MM 25 C 1MM 53 C
VAPOR DENSITY: 4.4

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
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND

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PAGE 4

CATALOG #: 14714-1
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VOMITING.

ABSORPTION INTO THE BODY LEADS TO THE FORMATION OF METHEMOGLOBIN WHICH IN SUFFICIENT CONCENTRATION CAUSES CYANOSIS. ONSET MAY BE DELAYED 2 TO 4 HOURS OR LONGER.

MAY CAUSE ALLERGIC SKIN REACTION.

NAPHTHALENE IS RETINOTOXIC AND SYSTEMIC ABSORPTION OF ITS VAPORS ABOVE 15PPM, MAY RESULT IN CATARACTS, OPTICAL NEURITIS, INJURIES TO THE CORNEA AND MARKED EYE IRRITATION. INGESTION OF LARGE QUANTITIES HAVE BEEN REPORTED TO CAUSE SEVERE HEMOLYTIC ANEMIA AND HEMOGLOBINURIA.

CHRONIC EFFECTS

CARCINOGEN.

TARGET ORGAN(S):

EYES

BLOOD

KIDNEYS

LUNGS

RTECS #: QJ0525000
NAPHTHALENE

IRRITATION DATA

SKN-RBT 495 MG OPEN MLD

EYE-RBT 100 MG MLD

UCDS** 1/11/68

BIOFX* 16-4/70

TOXICITY DATA

ORL-CHD LDLO:100 MG/KG

UNR-HMN LDLO:29 MG/KG

UNR-MAN LDLO:74 MG/KG

ORL-RAT LD50:490 MG/KG

IHL-RAT LC50:>340 MG/M3/1H

SKN-RAT LD50:>2500 MG/KG

ORL-MUS LD50:533 MG/KG

IPR-MUS LD50:150 MG/KG

SCU-MUS LD50:969 MG/KG

IVN-MUS LD50:100 MG/KG

SKN-RBT LD50:>20 GM/KG

ORL-GPG LD50:1200 MG/KG

28ZRAQ -,228,60

YKYUA6 31,1499,80

85DCAI 2,73,70

85GMAT -,89,82

BIOFX* 16-4/70

TXAPA9 14,515,69

FAATDF 4,406,84

NTIS** AD691-490

TOIZAG 20,772,73

CSLNX* NX#00203

NTIS** AD-A062-138

GISAAA 47(11),78,82

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (PTOSIS)

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (TREMOR)

BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)

BEHAVIORAL (ATAXIA)

LUNGS, THORAX OR RESPIRATION (RESPIRATORY DEPRESSION)

LUNGS, THORAX OR RESPIRATION (TUMORS)

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PAGE 5

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TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)
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 -----

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 ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

EUROPEAN INFORMATION

HIGHLY FLAMMABLE

TOXIC

R 45

MAY CAUSE CANCER.

R 20/21/22

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

R 43

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

HIGHLY FLAMMABLE

S 16

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S 45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 26

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

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK

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PAGE 6

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ACGIH TLV-TWA 10 PPM; STEL 15 PPM (SKIN) 85INA8 6,1063,91
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89
MSHA STANDARD-AIR:TWA 10 PPM (50 MG/M3)
DTLVS* 3,177,71
OSHA PEL (GEN INDU):8H TWA 10 PPM (50 MG/M3)
CFRGBR 29,1910.1000,94
OSHA PEL (CONSTRUC):8H TWA 10 PPM (50 MG/M3)
CFRGBR 29,1926.55,94
OSHA PEL (SHIPYARD):8H TWA 10 PPM (50 MG/M3)
CFRGBR 29,1915.1000,93
OSHA PEL (FED CONT):8H TWA 10 PPM (50 MG/M3)
CFRGBR 41,50-204.50,94
DEL-ARAB REPUBLIC OF EGYPT:TWA 10 PPM (50 MG/M3) JAN93
DEL-AUSTRALIA:TWA 10 PPM (50 MG/M3);STEL 15 PPM (75 MG/M3) JAN93
DEL-BELGIUM:TWA 10 PPM (52 MG/M3);STEL 15 PPM (79 MG/M3) JAN93
DEL-DENMARK:TWA 10 PPM (50 MG/M3) JAN93
DEL-FINLAND:TWA 10 PPM (50 MG/M3);STEL 20 PPM (100 MG/M3) JAN93
DEL-FRANCE:TWA 10 PPM (50 MG/M3) JAN93
DEL-GERMANY:TWA 10 PPM (50 MG/M3) JAN93
DEL-HUNGARY:TWA 40 MG/M3;STEL 80 MG/M3;SKIN JAN93
DEL-THE NETHERLANDS:TWA 10 PPM (50 MG/M3) JAN93
DEL-THE PHILIPPINES:TWA 10 PPM (50 MG/M3) JAN93
DEL-POLAND:TWA 20 MG/M3 JAN93
DEL-RUSSIA:STEL 20 MG/M3 JAN93
DEL-SWITZERLAND:TWA 10 PPM (50 MG/M3) JAN93
DEL-UNITED KINGDOM:TWA 10 PPM (50 MG/M3);STEL 15 PPM (75 MG/M3) JAN93
DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO NAPHTHALENE-AIR:10H TWA 10 PPM;STEL 15 PPM
NIOSH* DHHS #92-100,92
NOHS 1974: HZD 49600; NIS 71; TNF 4341; NOS 68; TNE 44297
NOES 1983: HZD 49600; NIS 83; TNF 7209; NOS 87; TNE 112696; TFE 5220
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-MOUSE EMBRYO
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-RLV F344 RAT EMBRYO
EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
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U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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