MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

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

CATALOG #: 520-200
NAME: A-NAPHTHOL 99+% 

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

CAS #: 90-15-3
MF: C10H8O
EC NO: 201-969-4

SYNONYMS
BASE URSoL ERN * C.I. 76605 * C.I. OXIDATION BASE 33 * DURAFUR DEVELOPER D * FOURAMINE ERN * FOURRINE 99 * FOURRINE ERN * FURRO ER * ALPHA-HYDROXYNAPHTHALEN * 1-HYDROXYNAPHTHALEN * NAKO TRB * 1- NAPHTHALENOL * ALPHA-NAPHTHOL * TERTRAN ERN * URSoL ERN * ZOBA ERN *

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

LABEL PRECAUTIONARY STATEMENTS
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
CAUSES SEVERE IRRITATION.
READILY ABSORBED THROUGH SKIN.
TARGET ORGANS:
EYES
KIDNEYS
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.

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITHCopious 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 IMMEDIATELY.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

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MATERIAL SAFETY DATA SHEET

CATALOG #: 520-200
NAME: A-NAPETHOL 99+% 

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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.

REFER TO SECTION 8.

SECTION 7. -------- HANDLING AND STORAGE--------

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
SEVERE IRRITANT.

TOXIC
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR SOLID.

PHYSICAL PROPERTIES
BOILING POINT: 278 C TO 280 C
MELTING POINT: 95 C TO 96 C
EXPLOSION LIMITS IN AIR:
UPPER 5%
LOWER 0.8%

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THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

NAME: A-NAPHTHOL 99+%  
AUTOIGNITION TEMPERATURE: 1007°F 541°C  
VAPOR PRESSURE: 100°C 94 C  
VAPOR DENSITY: 4.5 @ 120°C

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS  
STRONG BASES  
ACID CHLORIDES  
ACID ANHYDRIDES  
HALOGENS  
AIR SENSITIVE  
LIGHT SENSITIVE

Hazardous Combustion or Decomposition Products
TOXIC FUMES OF: CARBON MONOXIDE, CARBON DIOXIDE

SECTION 10.  STABILITY AND REACTIVITY

SECTION 11.  TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.  
CAUSES SEvere IRRITATION.  
HIGH CONCENTRATIONS ARE EXTREMELY Destructive TO TISSUES OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.  
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,  
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND  
VOMITING.

TARGET ORGAN(S):
EYES  
LIVER, KIDNEYS  
BLOOD

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: OL2800000  
1-NAPHTHOL

IRRITATION DATA
SKN-RBT 500 MG/24H SEV  
SKN-RBT 550 MG OPEN MOD  
EYE-RBT 1 MG SEV

TOXICOLOGY DATA
ORL-RAT LD50:1870 MG/KG  
FYI-QTS-0885-0443  
IH-L-RAT LC50:420 MG/M3/1H  
IPR-RAT LD50:250 MG/KG  
FYI-QTS-0885-0443  
ORL-MUS LD50:275 MG/KG  
ORL-CAT LD50:134 MG/KG

BIOFX* 25-4/73  
UCDS** 11/10/64  
UCDS** 11/10/64

TSCAT*  
BIOFX* 25-4/73  
TSCAT*

GISAAS 30(9),22,65  
GISAAS 30(9),22,65

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MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: 520-200
NAME: A-NAPETHOL 99+%  

ORL-RBT LD50: 9 GM/KG  
SKN-RBT LD50: 880 MG/KG  
ORL-GFP LD50: 2 GM/KG  

GISAIAA 30(9), 22.65  
AIHAAP 23, 95, 62  
GISAIAA 30(9), 22.65  

TARGET ORGAN DATA
EFFECTS ON FERTILITY (LITTER SIZE)  
EFFECTS ON EMBRYO OR EMBRYOS (FETOTOXICITY)  
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 - - - - - - - -

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 SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.  

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

EUROPEAN INFORMATION
EC INDEX NO: 604-029-00-5  
TOXIC  
R 21/22  
HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.  
R 37/38  
IRRITATING TO RESPIRATORY SYSTEM AND SKIN.  
R 41  
RISK OF SERIOUS DAMAGE TO EYES.  
S 22  
DO NOT BREATHE DUST.  
S 26  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
S 37/39  
WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.  

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK  
OEL-RUSSIA: STEL 0.5 MG/M3 JAN93  
NOHS 1974: BLD 81692; NIS 20; TNF 1281; NOS 28; TNE 12938  
NOHS 1983: BLD 81692; NIS 7; TNF 5497; NOS 24; TNE 57255; TFE 43248  
EPA GENETOX PROGRAM 1998, NEGATIVE: N CRESSA-AQUEUFLUIDY; HISTIDINE REVERSION-AMES TEST

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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

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: 520-200
NAME: A-NAPETHOL 99+%  

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: MAMMALIAN MICRONUCLEUS
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, OCTOBER 1995

SECTION 16. OTHER INFORMATION

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