



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 #: 33341-7
NAME: LIGROIN

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

CAS #: 8032-32-4
EC NO: 232-453-7

SYNONYMS

AMSCO H-J * AMSCO H-SB * BENZIN B70 * HI-FLASH NAPHTHA * HYDROTREATED
NAPHTHA * NAPHTHA * NAPHTHA COAL TAR (OSHA) * NAPHTHA (OSHA) *
NAPHTHA (UN2553) (DOT) * NAPHTHA, HYDROTREATED * NAPHTHA, PETROLEUM
(UN1255) (DOT) * NAPHTHA, SOLVENT (UN1256) (DOT) * PETROLEUM BENZIN *
PETROLEUM-DERIVED NAPHTHA * PETROLEUM DISTILLATES (NAPHTHA) (OSHA) *
PETROLEUM OIL (UN1270) (DOT) * BENZYNA DO LAKIEROW C (POLISH) * SUPER
VMP * UN1255 (DOT) * UN1256 (DOT) * UN1270 (DOT) * UN2553 (DOT) *

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA)
HIGHLY FLAMMABLE (EU)
TOXIC
TOXIC BY INHALATION AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.
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 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.

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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 #: 33341-7
NAME: LIGROIN

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

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

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

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.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.

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PAGE 3

CATALOG #: 33341-7
NAME: LIGROIN

IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
COLORLESS LIQUID

PHYSICAL PROPERTIES

BOILING POINT: 60 C TO 80 C
FLASHPOINT: -16 F
8C

SPECIFIC GRAVITY: 0.656
VAPOR DENSITY: >1

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 INHALED OR SWALLOWED.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM

RTECS #: DE3030000
BENZIN

TOXICITY DATA

IHL-HMN LCLO:3 PPH/5M
IVN-MAN LDLO:27 MG/KG
DRL-RAT LD50:>5 GM/KG
SKN-RBT LD50:>3 GM/KG

TABIA2 3,231,33
CTOXAO 16,335,80
JJATDK 9,59,89
JJATDK 9,59,89

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PAGE 4

CATALOG #: 33341-7
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TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)

LUNGS, THORAX OR RESPIRATION (DYSPPNEA)

LUNGS, THORAX OR RESPIRATION (RESPIRATORY STIMULATION)

LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

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 - - - - -

EUROPEAN INFORMATION

HIGHLY FLAMMABLE

TOXIC

R 23/25

TOXIC BY INHALATION AND IF SWALLOWED.

R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

HIGHLY FLAMMABLE

S 16

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S 3/7/9

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

S 26

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

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WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK

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PAGE 5

CATALOG #: 33341-7
NAME: LIGROIN

MSHA STANDARD-AIR: TWA 100 PPM (400 MG/M3)
DTLVS* 3,176,71
OSHA PEL (GEN INDU): 8H TWA 100 PPM (400 MG/M3)
CFR GBR 29,1910.1000.94
OSHA PEL (CONSTRUC): 8H TWA 100 PPM (400 MG/M3)
CFR GBR 29,1926.55.94
OSHA PEL (SHIPYARD): 8H TWA 100 PPM (400 MG/M3)
CFR GBR 29,1915.1000.93
OSHA PEL (FED CONT): 8H TWA 100 PPM (400 MG/M3)
CFR GBR 41,50-204.50.94
DEL-AUSTRALIA: TWA 480 MG/M3 JAN93
DEL-CZECHOSLOVAKIA: TWA 200 MG/M3; STEL 1000 MG/M3 JAN93
DEL-CZECHOSLOVAKIA: TWA 500 MG/M3; STEL 2500 MG/M3 JAN93
DEL-HUNGARY: TWA 300 MG/M3; STEL 800 MG/M3 JAN93
DEL-THE PHILIPPINES: TWA 100 PPM (400 MG/M3) JAN93
DEL-POLAND: TWA 300 MG/M3 JAN93
DEL-RUSSIA: STEL 100 MG/M3 JAN93
DEL-SWITZERLAND: TWA 300 MG/M3; STEL 1100 MG/M3 JAN93
DEL-TURKEY: TWA 100 PPM (400 MG/M3) JAN93
NIOSH REL TO NAPHTHA-AIR: 10H TWA 100 PPM
NIOSH* DHHS #92-100.92
NOHS 1974: HZD M0628; NIS 225; TNF 32790; NOS 134; TNE 327083
NOES 1983: HZD M0628; NIS 232; TNF 33808; NOS 133; TNE 471013; TFE 57366
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996
NIOSH ANALYTICAL METHOD, 1994: NAPHTHAS, 1550

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

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