



chemists helping chemists in research & industry

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DATE: 10/08/92
CUST#: 938609
PO#: 72761

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

IDENTIFICATION

PRODUCT #: 33341-7
CAS #: 8032-32-4
NAME: LIGROIN

SYNONYMS

BENZINE (LIGHT PETROLEUM DISTILLATE) * BENZOLINE * CANADOL * LIGROIN *
PAINTERS NAPHTHA * PETROLEUM ETHER * PETROLEUM ETHER (DOT) * REFINED
SOLVENT NAPHTHA * SKELLYSOLVE F * SKELLYSOLVE G * UN 1271 (DOT) *
VARNISH MARKER'S NAPHTHA * VM AND P NAPHTHA * VM & P NAPHTHA * VM & P
NAPHTHA (ACGIH, OSHA) *

TOXICITY HAZARDS

RTECS NO: OI6180000

LIGROINE

IRRITATION DATA

EYE-HMN 880 PPM/15M

TXAPA9 32,263,75

TOXICITY DATA

IHL-RAT LC50:3400 PPM/4H

TXAPA9 32,263,75

IVN-MUS LD50:40 MG/KG

PCJOAU 7,765,73

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 300 PPM; STEL 400 PPM 85INAB 5,631,86

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,30848,89

OSHA PEL FINAL:8H TWA 300 PPM (1350 MG/M3); STEL 400 PPM (1800 MG/M3)

FEREAC 54,2923,89

NIOSH REL TO VM & P NAPHTHA-AIR:10H TWA 350 MG/M3; CL 1800 MG/M3/15M

NIOSH* DHHS #92-100,92

NOHS 1974: HZD M0630; NIS 21; TNF 1437; NOS 22; TNE 10998

NOES 1983: HZD M0630; NIS 1; TNF 5; NOS 2; TNE 1674; TFE 109

EPA TSCA CHEMICAL INVENTORY, JUNE 1990

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JULY 1992

NIOSH ANALYTICAL METHODS: SEE NAPHTHAS 1550

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF INHALED OR SWALLOWED.

VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

CAUSES SKIN IRRITATION.

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NAME: LIGROIN

P R E C A U T I O N S T O B E T A K E N I N H A N D L I N G A N D S T O R A G E

KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.
LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)
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.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE
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CAS #: 8032-32-4

NAME: LIGROIN

HEALTH HAZARD DATA

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM

FIRST AID

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

PHYSICAL DATA

BOILING PT: 60 C TO 80 C
SPECIFIC GRAVITY: 0.656
VAPOR DENSITY: >1

APPEARANCE AND ODOR
COLORLESS LIQUID

FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: -16 F

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 EXPLOSION HAZARDS

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

CONTINUED ON NEXT PAGE

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F I R E A N D E X P L O S I O N H A Z A R D D A T A

CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR.
EXTREMELY FLAMMABLE.

R E A C T I V I T Y D A T A

I N C O M P A T I B I L I T I E S

OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

S P I L L O R L E A K P R O C E D U R E S

S T E P S T O B E T A K E N I F M A T E R I A L I S R E L E A S E D O R S P I L L E D

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.

W A S T E D I S P O S A L M E T H O D

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

P R E C A U T I O N S T O B E T A K E N I N H A N D L I N G A N D S T O R A G E

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.
IRRITANT.

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