



chemists helping chemists in research & industry

aldrich chemical co.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA • (414) 273-3850

ATTN: SAFETY DIRECTOR
SCHOOLCRAFT COLLEGE
PURCHASING DEPT
18600 HAGGERTY RD
LIVONIA
MARGARET JUDD

MI 48152

DATE: 03/10/87
CUST # 938609 P.O. #

M A T E R I A L S A F E T Y D A T A S H E E T

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IDENTIFICATION

PRODUCT # 27051-2 NAME: HEPTANE, 99.8%, HPLC GRADE
CAS # 142-82-5

TOXICITY HAZARDS

RTECS # MI7700000

HEPTANE

TOXICITY DATA

IVN-MUS LD50:222 MG/KG

JPMSAE 67,566,78

REVIEWS, STANDARDS, AND REGULATIONS

MSHA STANDARD-AIR:TWA 500 PPM (2000 MG/M3) DTLVS* 3,124,71

OSHA STANDARD-AIR:TWA 500 PPM FEREAC 39,23540,74

NIOSH REL TO ALKANES-AIR:TWA 350 MG/M3 MMWR** 34(1S),6S,85

REPORTED IN EPA TSCA INVENTORY, 1983

*NIOSH MANUAL OF ANALYTICAL METHODS, 3RD ED. SEE: METHOD 1500

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420, 82

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.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER

RESPIRATORY TRACT.

CAUSES EYE IRRITATION.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

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

CALL A PHYSICIAN.

REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

PHYSICAL DATA

MELTING POINT: -91 C

BOILING POINT: 98 C

SPECIFIC GRAVITY: 0.684

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 30 F

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

PREVENT CONTACT WITH SKIN AND EYES.

USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

FLAMMABLE LIQUID.

USA
Aldrich Chemical Co., Inc.
940 West Saint Paul Avenue
Milwaukee, Wisconsin 53233
Telephone: (414) 273-3850
TWX: 610 282-3852 Aldrichesh MI
Telex: 25-943 Aldrich MI
FAX: (414) 273-4875

Belgium
Aldrich Chemie N.V.S.A.
6 Rue Caporal Glass
B-1039 Brussels
Telephone: (02) 2428734
Telex: 62202 Aldrich B

France
Aldrich-Chimie S.r.l.
27, Fosse des Treize
F-67080 Strasbourg
Telephone: (08) 3276780
Telex: 820476 Aldrich F
FAX: (08) 32 12 83

Japan
Aldrich Japan
Kyodo Bldg. Shinkado
10 Kanda-Mitsuruchi
Chiyoda-Ku, Tokyo
Telephone: 03-329-0186
FAX: 03-329-0187

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 07426 2211
Telex: 417326 Aldrich G
FAX: 07426 3779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7824 Steinheim
Telephone: 07228 87-0
Telex: 714035 Aldrich D
FAX: 07228 87-30

FORM 020 REV. 2-86



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CATALOG # 27051-2

NAME: HEPTANE, 99.8%, HPLC GRADE

UNUSUAL FIRE AND EXPLOSION HAZARDS

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

EXTREMELY FLAMMABLE.

CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

FORMS EXPLOSIVE MIXTURES IN AIR.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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.

WASTE DISPOSAL METHOD

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 & LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

CHEMICAL SAFETY GOGGLES.

RUBBER GLOVES

USE NONSPARKING TOOLS.

MECHANICAL EXHAUST REQUIRED.

OSHA/MSHA-APPROVED RESPIRATOR.

DO NOT BREATHE VAPOR.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

MAY DEVELOP PRESSURE.

REFRIGERATE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

NOT APPLICABLE

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(R)

USA
Aldrich Chemical Co., Inc.
940 West Saint Paul Avenue
Milwaukee, Wisconsin 53233
Telephone: (414) 273-3850
TWX: (910) 282-3052 Aldrichem M
Telex: 28 843 Aldrich MI
FAX: (414) 273-4879

Belgium
Aldrich Chemie N.V./S.A.
6 Rue Caporal Claes
B-1030 Brussels
Telephone: (02) 2428750
Telex: 82302 Alchem B

France
Aldrich-Chimie S.a.r.l.
27, Fossé des Treize
F-67000 Strasbourg
Telephone: (88) 327018
Telex: 690075 Aldrich F
FAX: (88) 75 12 83

Japan
Aldrich Japan
Kyoto Bldg. Shinkanda
10 Kanda-Miturocho
Chiyoda-Ku, Tokyo
Telephone: (03) 258-0155
FAX: (03) 258-0157

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: (07476) 2211
Telex: 417235 Aldrich G
FAX: (07476) 3779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7924 Steinheim
Telephone: (07329) 87-0
Telex: 714838 Aldi D
FAX: (07329) 87-39