

ALDRICH CHEMICAL COMPANY, INC. P.O. BOX 355 MILWAUKEE, WISCONSIN 53201, USA

ATTN: SAFETY DIRECTOR MARY ONSRUD UNIVERSITY OF WISCONS P O BOX 296 WHITEWATER WI 53190 WISCONSIN WHITEWATER EMERGENCY PHONE 1-414-273-3850 DATE

E 09/24/99 CUST#: 523216 PO#: CC/ONSRUD/92399

PAGE D A T A HEET SAFETY MATERIAL - CHEMICAL IDENTIFICATION-SECTION 1. 29698-8 CATALOG #: OCTANE, ANHYDROUS, NAME: - - - - COMPOSITION/INFORMATION ON INGREDIENTS SECTION 2. CAS #: 111-65-9 MF: C8H18 EC NO: 203-892-1 SYNONYMS N-OCTANE \* OCTANE (ACGIH:OSHA) \* OKTAN (POLISH) \* OKTANEN (DUTCH) OTTANI (ITALIAN) \* HAZARDS IDENTIFICATION SECTION 3. LABEL PRECAUTIONARY STATEMENTS FLAMMABLE (USA) HIGHLY FLAMMABLE (EU)
HARMFUL
HARMFUL BY INHALATION AND IF SWALLOWED.
IRRITATING TO EYES AND RESPIRATORY SYSTEM.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING. HIGHLY FLAMMABLE (EU) - FIRST-AID MEASURES-SECTION 4. -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. IF BREATHING IS DIFFICULT, GIVE OXYGEN. - - FIRE FIGHTING MEASURES -SECTION 5. - - -EXTINGUISHING MEDIA 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.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. UNUSUAL FIRE AND EXPLOSIONS HAZARDS FLAMMABLE LIQUID.

We are Committed to the Success of our Customers through Science, Technology and Service.

3133

CONTINUED ON NEXT PAGE

## ALDRICH CHEMICAL COMPANY, INC. P.O. BOX 355 MILWAUKEE, WISCONSIN 53201, USA

CUST#: 523216 PO#: CC/ONSRUD/92399

SHEET PAGE MATERIAL SAFETY DATA 29698-8 CATALOG #: OCTANE, ANHYDROUS, 99+% NAME: VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR. SECTION 6. - - - -- - - ACCIDENTAL RELEASE MEASURES- -EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY - - HANDLING AND STORAGE- -SECTION 7. - - -REFER TO SECTION 8. SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION-RUBBER GLOVES.
CHEMICAL SAFETY GOGGLES.
USE NONSPARKING TOOLS.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY. REMOVE AND WASH CONTAMINATION IRRITANT.
HARMFUL LIQUID AND FUMES.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS
STORE IN A COOL DRY PLACE. SPARKS, AND OPEN FLAME. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL PROPERTIES
BOILING POINT:
MELTING POINT: 125 C TO 127 C 60 15C FLASHPOINT F EXPLOSION LIMITS IN AIR: UPPER 6.5% 0.96% LOWER AUTOIGNITION TEMPERATURE:
VAPOR PRESSURE: 11MM
SPECIFIC GRAVITY: 0.70 428 F 219C ĬĺMM 20 C 0.703 3.9 VAPOR DENSITY: SECTION 10. - -- - - STABILITY AND REACTIVITY -INCOMPATIBILITIES OXIDIZING AGENTS HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

CONTINUED ON NEXT PAGE



MATERIAL

ALDRICH CHEMICAL COMPANY, INC. P.O. BOX 355 MILWAUKEE, WISCONSIN 53201, USA

DATA

CUST#: 523216 PO#: CC/ONSRUD/92399

SHEET

PAGE 3

CATALOG #: 29698-8 OCTANE, ANHYDROUS, 99+%
CARBON MONOXIDE, CARBON DIOXIDE
SECTION 11 TOXICOLOGICAL INFORMATION
ACUTE EFFECTS CAUSES EYE IRRITATION. MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. HARMFUL IF INHALED OR SWALLOWED. HARMFUL IF INHALED OR SWALLOWED. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, NAUSEA AND WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.
CHRONIC EFFECTS TARGET ORGAN(S): CENTRAL NERVOUS SYSTEM  RTECS #: RG8400000
OCTANE TOXICITY DATA IHL-RAT LC50:118 GM/M3/4H GTPZAB 32(10),23,1988
TARGET ORGAN DATA BEHAVIORAL (ALTERED SLEEP TIME) 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 EC INDEX NO: 601-009-00-8 HIGHLY FLAMMABLE HARMFUL R 11 R 11
HIGHLY FLAMMABLE.  CONTINUED ON NEXT PAGE

SAFETY

We are Committed to the Success of our Customers through Science, Technology and Service.







3135



M: -I-A AA'

## ALDRICH CHEMICAL COMPANY, INC. P.O. BOX 355 MILWAUKEE, WISCONSIN 53201, USA

CUST#: 523216 PO#: CC/ONSRUD/92399

PAGE

SHEET MATERIAL SAFETY DATA

29698-8 OCTANE, ANHYDROUS, 99+% CATALOG #: NAME: KEEP CONTAINER IN A WELL-VENTILATED PLACE. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. DO NOT EMPTY INTO DRAINS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. REVIEWS, STANDARDS, AND REGULATIONS OEL=MAK
ACGIH TLV-STEL 1750 MG/M3 (375 PPM)
ACGIH TLV-TWA 1400 MG/M3 (300 PPM)
DTLVS\* TLV/BEI,1997
MSHA STANDARD-AIR:TWA 400 PPM (1900 MG/M3)
DTLVS\* 3,191,1971
OSHA PEL (GEN INDU):8H TWA 500 PPM (2350 MG/M3)
CFRGBR 29,1910.1000.1994
OSHA PEL (CONSTRUC):8H TWA 400 PPM (1900 MG/M3)
CFRGBR 29,1926.55,1994
OSHA PEL (SHIPYARD):8H TWA 400 PPM (1900 MG/M3)
CFRGBR 29,1915.1000,1993
OSHA PEL (SHIPYARD):8H TWA 500 PPM (2350 MG/M3)
CFRGBR 41,50-204.50,1994
OEL-AUSTRALIA:TWA 300 PPM (1450 MG/M3);STEL 375 PPM (1800 MG/M3)
OEL-AUSTRIA: MAK 300 PPM (1400 MG/M3) OĒL-ĀŪSTRĀLĪĀ:TWĀ 300 PPM (1450 MG/M3); STEL 375 PPM (1800 MG/M3) JAN 1993
OĒL-ĀUSTRIA: MAK 300 PPM (1400 MG/M3); JAN1999
OĒL-BĒLGIUM:TWĀ 300 PPM (1400 MG/M3); JAN1999
OĒL-BĒLGIUM:TWĀ 300 PPM (1400 MG/M3); JAN1999
OĒL-BĒLGIUM:TWĀ 300 PPM (1400 MG/M3); STĒL 375 PPM (1750 MG/M3) JAN 1993
OĒL-PINLĀND:TWĀ 300 PPM (1400 MG/M3); STĒL 375 PPM (1750 MG/M3) JAN 1993
OĒL-HUNGĀRY:TWĀ 500 MPM (1250 MG/M3) JAN 1993
OĒL-HUNGĀRY:TWĀ 500 MPM (1250 MG/M3) JAN 1993
OĒL-JĀPĀN:TWĀ 300 PPM (1400 MG/M3) JAN 1993
OĒL-THĒ NĒTHĒRLĀNDS:TWĀ 300 PPM (1450 MG/M3) JAN 1993
OĒL-THĒ NĒTHĒRLĀNDS:TWĀ 300 PPM (1450 MG/M3) JAN 1993
OĒL-THĒ PHĪLĪPPĪNĒS:TWĀ 500 PPM (2350 MG/M3) JAN 1993
OĒL-RŪSSIĀ:TWĀ 300 PPM (900 MG/M3); STĒL 300 PPM (1400 MG/M3) JAN 1993
OĒL-SWĒDĒN:TWĀ 200 PPM (900 MG/M3); STĒL 300 PPM (1400 MG/M3) JAN 1993
OĒL-TŪKĒY:TWĀ 400 PPM (1900 MG/M3) JAN 1993
OĒL-TŪKĒY:TWĀ 500 PPM (1900 MG/M3) JAN 1993
OĒL-TŪKĒY JĀKĒY JĀKĒ

CONTINUED ON NEXT PAGE



ALDRICH CHEMICAL COMPANY, INC. P.O. BOX 355 MILWAUKEE, WISCONSIN 53201, USA

> CUST#: 523216 PO#: CC/ONSRUD/92399

> > PAGE

MATERIAL SAFETY DATA SHEET

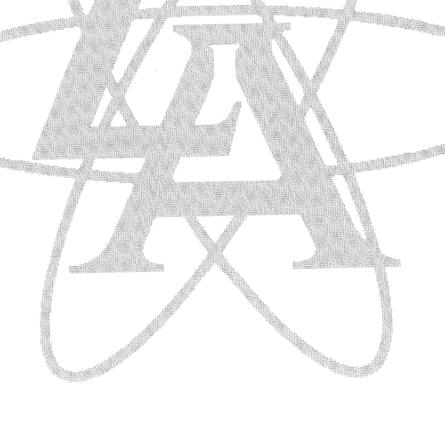
CATALOG #: NAME:

29698-8 OCTANE, ANHYDROUS, 99+%

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

COPYRIGHT 1998 SIGMA-ALDRICH CO. LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.



3137

We are Committed to the Success of our Customers through Science, Technology and Service.





