

AIR PRODUCTS & CHEMICALS -- PROPANE
MATERIAL SAFETY DATA SHEET
FSC: 6810
NIIN: 00F037664
Manufacturer's CAGE: 00742
Part No. Indicator: A
Part Number/Trade Name: PROPANE

General Information

Company's Name: AIR PRODUCTS AND CHEMICALS INC
Company's Street: 7201 HAMILTON BLVD
Company's City: ALLENTOWN
Company's State: PA
Company's Country: US
Company's Zip Code: 18195-1501
Company's Emerg Ph #: 215-481-4911/800-523-9374
Company's Info Ph #: 800-322-9092/800-523-9374
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01JUN90
Safety Data Review Date: 15DEC94
Preparer's Company: AIR PRODUCTS AND CHEMICALS INC
Preparer's St Or P. O. Box: 7201 HAMILTON BLVD
Preparer's City: ALLENTOWN
Preparer's State: PA
Preparer's Zip Code: 18195-1501
MSDS Serial Number: BWJPX

Ingredients/Identity Information

Proprietary: NO
Ingredient: PROPANE
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: TX2275000
CAS Number: 74-98-6
OSHA PEL: 1000 PPM
ACGIH TLV: SIMPLE ASPHYXIAN
Other Recommended Limit: 1800 MG/CUM

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS ODORIZED GAS W/SICKENING SWEET SMELL
Boiling Point: -43.8F
Melting Point: -305.9F
Vapor Pressure (MM Hg/70 F): 147 PSIA
Vapor Density (Air=1): 0.117
Specific Gravity: 1.56
Solubility In Water: 6.5% BY VOLUME

Fire and Explosion Hazard Data

Flash Point: -156F
Lower Explosive Limit: 2.1
Upper Explosive Limit: 9.5
Extinguishing Media: DRY CHEMICAL, CO2, HALON
Special Fire Fighting Proc: RESCUE PERSONNEL SHOULD AVOID EXPOSURE/WEAR
SCBA. DON'T ENTER AREAS W/IN FLAMMABLE RANGE DUE TO IMMEDIATE FIRE &

EXPLOSION HAZARD. COOL CONTAINERS W/WATER SPRAY
Unusual Fire And Expl Hazrds: PROPANE GAS VAPORS ARE DENSE/CAN COLLECT &
REMAIN IN LOW SPOTS EVEN AFTER THE SOURCE OF GAS HAS BEEN ELIMINATED.
CONTAINERS CAN RUPTURE VIOLENTLY DUE TO FIRE.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): HEAT, FLAME, IGNITION SOURCE, STATIC ELECTRICAL
DISCHARGE.

Materials To Avoid: OXIDIZERS, OXYGEN, CHLORINE, FLOURINE

Hazardous Decomp Products: NONE

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NONE

Health Hazard Data

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: INHALATION: EXPOSURE TO PROPANE DEPENDING ON
CONCENTRATION & DURATION OF EXPOSURE MAY INCLUDE RAPID RESPIRATION, AIR
HUNGER, DEATH. SKIN: MAY CAUSE FROSTBITE.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: INCOORDINATION, FATIGUE, NAUSEA, VOMITING,
CONVULSIONS, LOSS OF CONSCIOUSNESS, SKIN COLOR CHANGED TO GRAY/WHITE, COLD
FEELING, NUMBNESS.

Emergency/First Aid Proc: INHALATION: MOVE TO FRESH AIR. GIVE CPR/ OXYGEN
IF NEEDED. KEEP WARM & QUIET. SKIN: IN EVENT OF FREEZING, FROZEN TISSUES
SHOULD BE FLOODED/SOAKED W/TEPID WATER (105-115F). DON'T USE HOT WATER.
FIRST DEGREE BURNS WHICH RESULT IN FIRE EXPOSURE/OTHER SMALL AREA OF BODY
MAY BE IMMERSSED IN COOL WATER FOR 10-20 MINS TO RELIEVE PAIN. DON'T
IMMERSSED WHOLE BODY IN A COLD BATH. (SEE SUPP)

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: VENTILATE AREA TO PREVENT FLAMMABLE MIXTURE
FROM FORMING. REMOVE SOURCES OF IGNITION, HEAT, SPARKS. AVOID ENTERING AREA
OF FLAMMABLE ATMOSPHER. CAREFULLY REMOVE CYLINDERS W/SLOW LEAKS TO A
REMOTE, OUTDOOR LOCATION.

Waste Disposal Method: DON'T ATTEMPT TO DISPOSE OF RESIDUAL PROPANE IN
CYLINDERS. RETURN TO AIR PRODUCTS FOR DISPOSAL W/POSITIVE PRESSURE IN
CYLINDER, CYLINDER VALVE TIGHTLY CLOSED & VALVE CAPS IN PLACE. DISPOSE OF
IAW/FEDERAL, STATE & LOCAL REGULATIONS.

Precautions-Handling/Storing: USE ONLY IN WELL VENTILATED AREA. PROPANE
GAS CYCLINDERS CONTAIN GAS AT HIGH PRESSURE, HANDLE W/CARE. NEVER EXPOSE A
PROPANE CYLINDER TO HEAT.(SEE SUP

Other Precautions: ALWAYS KEEP PROPANE CYLINDERS UPRIGHT/SECURE CYLINDERS
WHEN IN USE. ALWAYS OPEN & CLOSE VALVES SLOWLY. AVOID DRAGGING/ROLLING/
SLIDING CYLINDERS. STORAGE OF 300 LBS/LESS OF PROPANE IS PERMISSIBLE W/IN
INDUSTRIAL BUILDINGS.

Control Measures

Respiratory Protection: USE ORGANIC VAPOR CANISTER/SCBA.

Ventilation: NATURAL/MECHANICAL WHERE GAS IS PRESENT. LOCAL EXHAUST/
GENERAL AS NECESSARY.

Protective Gloves: LEATHER/WELDING.

Eye Protection: SAFETY GLASSES/WELDERS GOGGLES

Other Protective Equipment: LEATHER SLEEVES, LEATHER APRON, SAFETY SHOES.

Suppl. Safety & Health Data: FIRST AID CONT'D: COVER BURNS W/CLEAN

MATERIAL. DON'T USE BURN OINTMENTS/GREASEY MATERIALS ON BURNS THAT SHOW MORE THAN LOCALIZED REDDENING. OBTAIN MEDICAL ATTENTION IN ALL CASES. WHEN THE CONCENTRATION OF PROPANE IN ATMOSPHERE > THE FLAMMABLE LIMIT THERE IS AN IMMEDIATE FIRE/EXPLOSION HAZARD.

Transportation Data

Disposal Data

Label Data

Label Required: YES

Label Status: G

Common Name: PROPANE

Special Hazard Precautions: INHALATION: EXPOSURE TO PROPANE DEPENDING ON CONCENTRATION & DURATION OF EXPOSURE MAY INCLUDE RAPID RESPIRATION, AIR HUNGER, DEATH. SKIN: MAY CAUSE FROSTBITE. INCOORDINATION, FATIGUE, NAUSEA, VOMITING, CONVULSIONS, LOSS OF CONSCIOUSNESS, SKIN COLOR CHANGED TO GRAY/WHITE, COLD FEELING, NUMBNESS.

Label Name: AIR PRODUCTS AND CHEMICALS INC

Label Street: 7201 HAMILTON BLVD

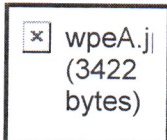
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