

MITTLER SUPPLY INC -- METHANE -- 6830-00-182-6315

===== Product Identification =====

Product ID:METHANE  
MSDS Date:11/01/1993  
FSC:6830  
NIIN:00-182-6315  
MSDS Number: CCBDY  
=== Responsible Party ===  
Company Name:MITTLER SUPPLY INC  
Address:3607 SOUTH MAIN ST  
City:SOUTH BEND  
State:IN  
ZIP:46614  
Country:US  
Info Phone Num:219-291-5100  
Emergency Phone Num:219-291-5100  
CAGE:0B672  
=== Contractor Identificati  
on ===  
Company Name:MITTLER SUPPLY INC  
Address:3607 S MAIN ST  
Box:City:SOUTH BEND  
State:IN  
ZIP:46614  
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CAGE:0B672

===== Composition/Information on Ingredients =====

Ingred Name:METHANE  
CAS:74-82-8  
RTECS #:PA1490000  
Fraction by Wt: 100%  
OSHA PEL:N/K  
ACGIH TLV:ASPHYXIAN

Ingred Name:SUPDAT:CONTNRS FROM AREA OF FIRE IF W/OUT RISK. ALLOW FIRE  
TO BURN OUT. ON-SITE FIRE BRIGADES MUST COMPLY W/OSHA (ING 3)  
RTECS #:9999999ZZ

Ingred Name:ING 2: 29 CFR

1910.156.  
RTECS #:9999999ZZ

Inged Name:EXPLO HAZ: MAY SPREAD FROM SPILL. EXPLO ATMS MAY LINGER.  
BEFORE ENTERING AREA, ESP CONFINED AREAS. CHECK ATM (ING 5)  
RTECS #:9999999ZZ

Inged Name:ING 4: W/APPRVD DEVICE. NO PART OF CNTNR SHOULD BE  
SUBJECTED TO TEMP HIGHER THAN 52C(125F). MOST CNTNRS ARE (ING 6)  
RTECS #:9999999ZZ

Inged Name:ING 5: PROVIDED WITH A PRESS RELIEF DEVICE DESIGNED TO VENT  
CONTENTS WHEN THEY ARE EXPOSED TO ELEVATED TEMPS.  
RTECS #:9999999ZZ

Inged Name:MATL TO AV  
OID: OXYGEN, OXYGEN DIFLUORIDE MAY EXPLODE.  
RTECS #:9999999ZZ

Inged Name:HAZ DECOMP PRODS: AIR, METHANE MAY DECOMPOSE TO FORM  
HYDROGEN.  
RTECS #:9999999ZZ

Inged Name:SPILL PROC: MOVE LEAKING CNTNR TO WELL VENTD AREA. FLAM  
VAPS MAY SPREAD FROM SPILL. BEFORE ENTERING AREA, ESP (ING 10)  
RTECS #:9999999ZZ

Inged Name:ING 9: CONFINED AREAS, CHECK ATMOSPHERE W/APPROP DEVICE.  
RTECS #:9999999ZZ

Inged Name:OTHER PRECS: USE W/ADEQ VENT AT ALL TIMES. USE ONLY IN CLSD  
SYS. CLOSE VALVE WHEN  
NOT IN USE & WHEN EMPTY. KEEP (ING 12)  
RTECS #:9999999ZZ

Inged Name:ING 11: AWAY FROM OXIDIZING AGENTS. WHEN TWO/MORE GASES OR  
LIQUEFIED GASES ARE MIXED, THEIR HAZ PROPERTIES MAY (ING 13)  
RTECS #:9999999ZZ

Inged Name:ING 12: COMBINE TO CREATE ADDNL, UNEXPECTED HAZS. OBTAIN &  
EVALUATE SAFETY INFO FOR EACH COMPONENT BEFORE YOU (ING 14)  
RTECS #:9999999ZZ

Inged Name:ING 13:PRDCE THE MIX. CONSULT INDUS HYGIENIST/OTHER TRAINED  
PERSON WHEN MAKING SFTY EVALS OF END PROD. REMEMBER,(ING

15)  
RTECS #:9999999ZZ

Ingred Name:ING 14: GASES & LIQS HAVE PROPERTIES WHICH CAN CAUSE  
SERIOUS INJURY/DEATH. BE SURE TO READ & UNDERSTAND ALL (ING 16)  
RTECS #:9999999ZZ

Ingred Name:ING 15: LABELS & OTHER INSTRUCTIONS SUPPLIED W/ALL CNTNRS  
OF THIS PROD. NOTE: COMPATIBILITY W/PLASTICS SHOULD (ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16: BE CONFIRMED PRIOR TO USE. FOR SFTY INFO ON GEN  
HNDLG OF COMPRESSED GAS CYLS, OBTAIN COPY OF PAMPHLET (ING 18)  
RTECS #:9999999ZZ

Ingred Name:ING  
17: P-1, "SAFE HANDLING OF COMPRESSED GASES IN  
CONTAINERS" FORM THE COMPRESSED GAS ASSOCIATION.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: FOR CYLINDER HANDLING. PROTECTIVE  
CLOTHING WHERE NEEDED.  
RTECS #:9999999ZZ

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===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INGESTION  
: AN UNLIKELY ROUTE OF  
EXPOSURE. SKIN CONTACT/SKIN ABSORPTION: NO EVIDENCE OF ADVERSE  
EFFECTS FROM AVAILABLE INFORMATION. INHALATION: METHANE IS AN  
ASPHYXIANT. LACK OF OXYGEN CAN CAUSE DEATH. MODERATE  
CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS,  
EXCITATION, EXCESS SALIVATION, (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:HLTH HAZ: VOMITING AND UNCONSCIOUSNESS.  
CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE INFO  
RMATION.  
Medical Cond Aggravated by Exposure:A KNOWLEDGE OF AVAIL TOXICOLOGICAL  
INFO & PHYSICAL & CHEMICAL PROPERTIES OF MATERIAL SUGGEST THAT  
OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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===== First Aid Measures =====

First Aid:INGEST: CALL MD IMMED . THIS PRODUCT IS A GAS AT NORMAL TEMP  
& PRESSURE. SKIN: WASH W/SOAP & WATER. INHAL: REMOVE TO FRESH AIR.  
GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREA

T

HING IS DIFFICULT. CALL MD. EYES: FLUSH W/WATER FOR AT LEAST 15 MINUTES. NOTE TO MD: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXP SHOULD BE DIRECTED AT CONTROL OF SYMPTOMS & CLINICAL CONDITION.

===== Fire Fighting Measures =====

Flash Point:-306F,-188C

Lower Limits:5%

Upper Limits:15%

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY OR FOG.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP .

EVACUATE ALL

PERS FROM DANGER AREA. IMMED COOL CNTNRS W/WATER SPRAY FROM MAX DIST TAKING CARE NOT TO (SUPDAT)

Unusual Fire/Explosion Hazard:FLAM GAS. FORMS EXPLO MIXS W/AIR & OXIDIZING AGENTS. CNTNR MAY RUPTURE DUE TO HEAT OF FIRE. DO NOT EXTING FLAMES DUE TO POSS OF EXPLO RE-IGNIT. FLAM VAPS(ING 4)

===== Accidental Release Measures =====

Spill Release Procedures:DANGER:FORMS EXPLO MIXS W/AIR. IMMED EVACUATE ALL PERS FROM DANGER AREA. USE NIOSH APPRVD SCBA WHERE NEEDED.

REMOVE ALL SOURCES OF IGNIT IF W/OUT RISK. REDUCE VAPS W/FOG OR FINE WATER SPRAY. SHUT OFF LEAK IF W/OUT RISK. VENT AREA OF LEAK OR (ING 9)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO SAFE PLACE, THEN REPAIR THE LEAK.

Other Precautions:FLAM GAS

UNDER PRESS. USE PIPING & EQUIP ADEQ

DESIGNED TO W/STAND PRESS TO BE ENCOUNTERED. MAY FORM EXPLO MIXS W/AIR. GROUND ALL EQUIP. ONLY USE SPK PROOF TOOLS & EXPLO PROOF EQUIP. KEEP AWAY FROM HEAT, SPKS & OPEN FLAME. STORE & (ING 11)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:SELECT IN ACCORDANCE WITH OSHA 29 CFR 1910.134. RESPIRATORS SHALL BE ACCEPTABLE TO NIOSH.

Ventilation:LOCAL EXHAUST: EXPLOSION PROOF SYSTEM IS ACCEPTABLE.

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ECHANICAL (GENERAL): INADEQUATE. SPECIAL/OTHER: NOT APPLICABLE.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER .

SELECT I/A/W OSHA 29 CFR 1910.132 & 1910.133. METATARSAL SHOES (ING 19)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC: EXTING FLAMES. REMOVE IGNIT SOURCES IF W/OUT RISK. IF FLAMES ARE ACCIDENTALLY EXTINGUISHED EXP

LO RE-IGNIT MAY OCCUR;

THEREFORE, APPROP MEASURES SHOULD BE TAKEN, EG TOTAL EVACUATION. R EAPPROACH W/EXTREME CAUTION. STOP FLOW OF GAS IF W/OUT RISK WHILE CONTINUING COOLING WATER SPRAY. REMOVE ALL (ING 2)

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:-259F,-162C

Vapor Pres:GAS @ 20C

Vapor Density:0.554 @ 0C

Spec Gravity:GAS (H\*2O=1)

Solubility in Water:SLIGHTLY SOLUBLE

Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AN D

PRESSURE.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS. MIXS W/BROMINE PENTAFLUORIDE, CHLORINE & YELLOW MERCURIC OXIDE, NITROGEN TRIFLUORIDE, LIQ (ING 7)

Stability Condition to Avoid:TEMPERATURES IN EXCESS OF 700C.

Hazardous Decomposition Products:THERMAL DECOMPOSITION OR BURNING MAY PRODUCE CO/CO\*2. AT TEMPS IN EXCESS OF 700C & IN ABSENCE OF OXYGEN OR (ING 8)

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===== Disposal Considerations =====

Waste Disposal Methods:DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE

CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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