

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 Identificat
ion ===
Company Name:MITTLER SUPPLY INC
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===== 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 CF

R 1910.156.
RTECS #:9999999ZZ

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

Ingred 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

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

Ingred Name:MATL TO A
VOID: OXYGEN, OXYGEN DIFLUORIDE MAY EXPLODE.
RTECS #:9999999ZZ

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

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

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

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

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

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

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

G 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

===== 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:INGESTIO
N: 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 INF
ORMATION.
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.

===== 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 BRE

AT

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.

MECHANICAL (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 EX

PLO 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 AND

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)

===== 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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