

ACETYLENE

MSDS Number

BNRGX

National Stock Number

6830-01-024-4413

Product Name

ACETYLENE

Manufacturer

UNION CARBIDE CORP LINDE DIV

Product Identification

Product ID:ACETYLENE MSDS Date: 04/01/1987 FSC:6830 NIIN:01-024-4413 MSDS Number: BNRGX

Responsible Party

UNION CARBIDE CORP LINDE DIV 39 OLD RIDGEBURY ROAD

DANBURY, CT 06817-0001

US

Emergency Phone: 800-822-4357

Info Phone: 203-794-2000

Cage: 36346 **Contractor**

UNION CARBIDE CORP LINDE DIV

DANBURY, CT 06817-0001

US

800-822-4357; 304-744-3487

Cage: 36346

Ingredients

ACETYLENE CAS: 74-86-2

RTECS: A09600000

Fraction By Weight: 100%

ACGIH TLV: SIMPLE ASPHYXIANT

RE-IGNIT. FLAMM VAPS MAY SPREAD FROM LEAK. EXPLO

RTECS: 9999999ZZ

ATMOSPHERE W/APPRVD EXPLO METER.NO PART OF CNTNR

RTECS: 9999999ZZ



ALL CNTNRS ARE PROVIDED W/PRESS RELIEF DEVICE

RTECS: 9999999ZZ

TEMPS. CNTCT W/COPPER, SILVER OR MERCURY OR THEIR

RTECS: 9999999ZZ

LIGHTS, OTHER FLAMES, SPARKS, HEATERS, ELEC EQUIP,

RTECS: 9999999ZZ

DISTANT FROM PRODUCT HANDLING POINT.

RTECS: 9999999ZZ

OTHER DECOMP PRODS OF NORMAL OPERATION ORIGINATE FROM

RTECS: 9999999ZZ

ACETONE MAY CAUSE SEVERE LUNG DMG. IF LGE

RTECS: 9999999ZZ

BE EVAC QUICKLY IN MANNER WHICH AVOIDS ASPIR.

RTECS: 9999999ZZ

& CLINICAL CONDITION. NO SPECIFIC ANTIDOTE IS KNOWN.

RTECS: 9999999ZZ

ACCUMULATION IN LUNGS, A CNDTN WHICH MAY BE

RTECS: 9999999ZZ

CHANGE IS PROPORTIONAL TO LENGTH OF EXPOS. CHANGES

RTECS: 9999999ZZ

REDUCED LUNG FUNCTION/DISEASE. IN ADDN, CHANGES ON

RTECS: 9999999ZZ

AS SMOKING, ETC. RTECS: 9999999ZZ

MOVE LEAKING CNTNRS TO WELL-VENT AREA. FLAMM GAS

RTECS: 9999999ZZ

ESPECIALLY CONFINED AREAS, CHECK ATMOSPHERE WITH



RTECS: 9999999ZZ

VENT, & POSITION OF WORKERS HEAD TO FUME PLUME,

RTECS: 9999999ZZ

(SUCH AS CHLORINATED HYDROCARBON VAPS FROM

RTECS: 9999999ZZ

COMPOSITION/QTY OF FUMES & GASES TO WHICH WORKERS

RTECS: 9999999ZZ

HELMET/BRTHG ZONE.SEE ANSI/AWS F1.1. READ/UNDERSTAND

RTECS: 9999999ZZ

DESIGNED TO W/STAND PRESS ENCOUNTERED. CLOSE VALVE

RTECS: 9999999ZZ

DO NOT STRIKE ARC ON CYL, DEFECT PRODUCED COULD LEAD

RTECS: 9999999ZZ

DO NOT STORE WITH O*2 OR OTHER OXIDIZERS. PROT FROM

RTECS: 9999999ZZ

635 PSIG @ 21C. RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INGEST:FROSTBITE OF LIPS/MOUTH MAY RSLT FROM CNTCT W/LIQ. MAY CAUSE NAUS, INHAL:ASPHYXIANT. MOD CONC OF VAP MAY CAUSE HDCH, DROWS, DIZZ, NAUS, VOMIT, EXCITATION, EXCESS SALIVATION, & UNCON. SKIN:LIQ M AY CAUSE FROSTBITE. EYE:VAP MAY CAUSE IRRIT. LIQ MAY CAUSE IRRIT & FROSTBITE. CHRONIC: NO EVIDENCE OF (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT.

Effects of Overexposure: HLTH HAZ: ADVERSE EFTS AVAIL FROM INFO. NOTE TO MD:ACUTE:SOME TOX GASES ASSOC W/WELDING & RELATED PROCESSES MAY CAUSE PULM EDEMA, ASPHY, & DEATH. ACUTE OVEREXP MAY INCL SIGNS/SYMPS SUCH AS WATERY EYES, HDCH, DFCLTY BRTHG, FREQUENT COUGHING, OR CHEST PAINS. CHRONIC: PROTRACTED INHAL OF AIR CONTAM MAY LEAD TO THEIR(ING 12)

Medical Cond Aggravated by Exposure: KNOWLEDGE OF AVAILABLE TOXICOLOGY INFORMATION AND OF PHYSICAL AND CHEMICAL PROPERTIES OF MATERIAL SUGGEST THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

First Aid

First Aid:INGEST:DO NOT INDUCE VOMIT. CALL MD. SKIN:FLUSH W/WATER & WARM FROSTBITE AREA W/WARM WATER (NOT >105F). IN CASE OF MASSIVE



EXPOS, REMOVE CLTHG WHILE SHOWERING W/WARM WATER. CALL MD. INHAL:MOVE TO FRES H AIR. IF BRTHG STOPPED, GIVE ARTF RESP; IF BRTHG DFCLT, O*2 MAY BE GIVEN; CALL MD. EYE:IMMED FLUSH THORO W/WATER FOR AT LEAST 15 MINS. GET MD, PREF OPTHALMOLOGIST. NOTE TO MD:ASPIRATED (ING 9)

Fire Fighting

Flash Point Method:TCC Flash Point:0F,-18C Lower Limits:2.3% Upper Limits:100%

Extinguishing Media: USE MEDIA SUITABLE FOR SURROUNDING FIRE CONDITIONS

Fire Fighting Procedures: WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP . EVAC ALL PERS FROM DANGER AREA. IMMED COOL CNTNRS W/WATER SPRAY FROM MAX DISTANCE TAKING CARE NOT (SUPDAT) Unusual Fire/Explosion Hazard: EXTREMELY FLAMM GAS. FORMS EXPLO MIXTURES W/AIR & OXIDIZING AGENTS. CNTNR MAY RUPTURE DUE TO HEAT/FIRE. DO NOT EXTING FLAMES DUE TO POSS OF EXPLO (ING 2)

Accidental Release

Spill Release Procedures: FORMS EXPLO MIXTURES W/AIR. IMMED EVAC ALL PERS FROM DANGER AREA. USE NIOSH/MSHA APPRVD SCBA WHERE NEEDED. REMOVE ALL SOURCES OF IGNIT IF W/OUT RISK. REDUCE VAPS W/FOG OR LINE WATER SPRAY. SHUT OFF LE AK IF W/OUT RISK. VENT AREA OF LEAK OR (ING 16)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED AREA. DO NOT STORE NEAR OPEN FLAMES. STORE CYLINDERS IN UPRIGHT POSITION SECURED TO PREVENT FALLING OVER.

Other Precautions: COMPOSITION & QTY OF FUMES & GASES DEPENDENT ON METAL BEING WORKED, PROCESS, PROC & ELECTRODES USED, COATING ON METAL BEING WORKED (SUCH AS PAINT, PLATING OR GALVANIZING), NUMBER OF WORKERS & VOLUME O F WORK AREA, QUALITY & AMT OF (ING 18)

Exposure Controls

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WORKING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:LOC EXHST:USE ENOUGH VENT, LOC EXHST OR BOTH, TO KEEP FUMES/GASES BELOW TLV IN WORKERS BRTHG ZONE & GEN AREA. Protective Gloves:WELDING GLOVES.

Eye Protection: GOGG W/FILTER LENS AS PER ANSI Z49.1.

Other Protective Equipment: ARM PROTECTORS, APRONS, HATS, SHOULDER PROTECTION, AS WELL AS SUBSTANTIAL CLOTHING.

Work Hygienic Practices:TRAIN WELDER TO KEEP HEAD OUT OF FUMES & NOT TO TOUCH LIVE ELECTRICAL PARTS.

Supplemental Safety and Health

FIRE FIGHT PROC:TO EXTING FLAMES.REMOVE IGNIT SOURCES IF W/OUT RISK. IF FLAMES ACCIDENTALLY EXTING, EXPLO RE-IGNIT MAY OCCUR.STOP FLOW OF GAS IF W/OUT RISK WHILE CONTINUING COOLING W/WATER SPRAY. REMO VE ALL CNTNRS FROM FIRE AREA IF W/OUT RISK. ALLOW FIRE TO BURN OUT.ONSITE FIRE BRIGADES MUST COMPLY W/OSHA 29CFR1910.156

Chemical Properties

Vapor Pres:ING 25 Vapor Density:0.91

Solubility in Water:SLIGHT BY WEIGHT

Appearance and Odor: COLORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE;

GARLIC LIKE ODOR

Percent Volatiles by Volume: 100

Stability

Stability Indicator/Materials to Avoid:NO



COPPER, SILVER, MERCURY OR THEIR ALLOYS, OXIDIZING AGENTS, ACIDS, HALOGENS, MOISTURE.

Stability Condition to Avoid: STABLE AS SHIPPED. AVOID USE AT PRESSURES ABOVE 15 PSIG.

Hazardous Decomposition Products: THERM DECOMP/BURNING MAY PRODUCE CO/CO*2H*2. WELDING/CUTTING PROCESS MAY FORM RXN PRODS SUCH AS CO & CO*2. (ING 8)

Conditions to Avoid Polymerization: ELEVATED TEMPERATURES AND PRESSURE AND/OR THE PRESENCE OF A CATALYSTS.

Disposal

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. KEEP PERSONNEL AWAY. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

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