

GAS TECH INC. JOHNSON INSTRUMENT DIV -- CARBON MONOXIDE (0-6.5%) IN NITROGEN,17,81-0064-50 PPM -- 6830-01-424-2499

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Product Identification
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Product ID:CARBON MONOXIDE (0-6.5%) IN NITROGEN,17,81-0064-50 PPM

MSDS Date:06/11/1993

FSC:6830

NIIN:01-424-2499

MSDS Number: CDNRL

=== Responsible Party ===

Company Name:GAS TECH INC. JOHNSON INSTRUMENT DIV

Address:8407 CENTRAL AVE

City:NEWARK

Stat

e:CA

ZIP:94560-3431

Country:US

Info Phone Num:510-794-6200/ FAX 510-794-6201

Emergency Phone Num:510-794-6200/800-535-5053

CAGE:51906

=== Contractor Identification ===

Company Name:GAS TECH INC. JOHNSON INSTRUMENT DIV

Address:8445 CENTRAL AVE

Box:City:NEWARK

State:CA

ZIP:94560-3431

Country:US

Phone:510-794-6200

CAGE:51906

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Composition/Information on Ingredients
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Ingred Name:CARBON MONOXIDE

CAS:630-08-0

RTECS #:FG3500000

Fraction by Wt: 0 - 6.5%

Other REC Limits:NONE

RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV:25 PPM; 9596

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:ASPHYXIAN; 9596

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Hazards Identification
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LD50 LC50 Mixture:NOT RELEVANT

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:CARDIOVASCULAR SYSTEM,
LUNGS, CNS. ACUTE- OVEREX

POSURE MAY CAUSE HEADACHE, CONFUSION,
DIZZINESS, NAUSEA, WEAKNESS, VISION AND HEARING IMPAIRMENT,
HALUCINATION, CYANOSIS, ABNORMAL ELECTRO CARDIOGRAM, ANGINA,
SYNCOPE. CHRONIC- SOME ACUTE EFFECTS IDENTIFIED MAY BECOME CHRONIC.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:HEADACHE, CONFUSION, DIZZINESS, NAUSEA,
WEAKNESS, VISION AND HEARING IMPAIRMENT, HALUCINATION, CYANOSIS,
ABNORMAL ELECTROCARDIOGRAM, ANGINA, SYNCOPE

Medical Cond Aggravated by Exposure:CHRONIC
RESPIRATORY PROBLEMS,
CORONARY ARTERY DISEASE OR HEART DISEASE

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

First Aid:INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
SEEK IMMEDIATE MEDICAL ATTENTION.

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

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL
FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED

CYLINDERS.

Fire Fighting Procedures:AS WITH ANY FIRE, WEAR PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS TO AVOID
INHALATION OF SMOKE AND OTHER TOXIC GASES.

Unusual Fire/Explosion Hazard:GAS CYLINDERS MAY RUPTURE OR EXPLODE DUE
TO HEAT OF FIRE. THIS GAS IS NON-FLAMMABLE. WITHDRAW IMMEDIATELY IN
CASE OF RISING SOUND FROM VENTING SAFETY DEVICE.

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

Spill Release Procedures:PROVIDE ADE

QUATE VENTILATION. EMERGENCY

PERSONNEL WILL REQUIRE SELF-CONTAINED BREATHING APPARATUS IF CARBON
MONOXIDE CONCENTRATION IS ABOVE 50 PPM.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE UPRIGHT, IN COOL, DRY AREA BELOW
125F AWAY FROM INCOMPATIBLES, HEAVILY TRAFFIC AREAS & EMERGENCY
EXITS. SECURE CYLINDERS. DO NOT DROP.

Other Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. AVOID
BRE

ATHING GAS. KEEP OUT OF REACH OF CHILDREN. EXPOSURE TO
TEMPERATURES ABOVE 150F MAY OPERATE EXCESS-PRESSURE VALVE.

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

Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING
APPARATUS IF CARBON MONOXIDE CONCENTRATION IS ABOVE 50 PPM.

Ventilation:ADEQUATE

Protective Gloves:LEATHER, COTTON WHEN HANDLING CYLINDERS

Eye Protection:SAFETY GLASSES/GOGGLES RECOMMENDED

Other Protective Equipment:SAFETY SHOES WHEN HANDLI
NG CYLINDERS

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING,
DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Vapor Density:0.97

Spec Gravity:1.251 G/L(1ATM)

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT (GAS)

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS, ODORLESS COMPRE

SSED GAS IN CYLINDERS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, BROMINE TRIFLUORIDE, CHLORINE TRIFLUORIDE,
LITHIUM, NICKEL AND OIL IN HIGH PRESSURE EQUIPMENT

Stability Condition to Avoid:EXCESSIVE HEAT (TEMPERATURES ABOVE 125F)

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

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

Waste

Disposal Methods: VENT TO ATMOSPHERE IN AN OPEN AREA. EMPTY CONTAINERS MAY BE DISCARDED AS METAL REFUSE. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE.

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