

MINE SAFETY APPLIANCES CO -- 461768 CALIBRATION CHECK GAS, 60 PPM CARBON --
6550-01-203-6242

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

Product ID:461768 CALIBRATION CHECK GAS, 60 PPM CARBON

MSDS Date:02/01/1988

FSC:6550

NIIN:01-203-6242

MSDS Number: BNRJM

=== Responsible Party ===

Company Name:MINE SAFETY APPLIANCES CO

Address:3880 MEADOWBROOK ROAD

City:MURRYSVILLE

State:PA

ZIP:15668-1753

Country:US

Inf

o Phone Num:412-325-1313

Emergency Phone Num:412-325-1313

CAGE:55799

=== Contractor Identification ===

Company Name:MINE SAFETY APPLIANCES CO DBA MSA

Address:3880 MEADOWBROOK RD

Box:City:MURRYSVILLE

State:PA

ZIP:15668-1753

Country:US

Phone:724-733-9272

CAGE:55799

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

Ingred Name:CARBON MONOXIDE

CAS:630-08-0

RTECS #:FG3500000

Fraction by Wt: 0.006%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV:25 PPM; 9293

Ingred Na

me:OXYGEN
CAS:7782-44-7
RTECS #:RS2060000
Fraction by Wt: 22%
Other REC Limits:NONE RECOMMENDED

Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
Fraction by Wt: 78%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:ASPHYXIAN; 9192

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE.
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CARBON MONOXIDE TCLO (HUMAN) IS
REPORTEDLY 650 PPM/45 M
INUTES. LCLO(HUMAN) 5000 PPM/5 MINUTES.
Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS
LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.
Effects of Overexposure:EXPOSURE TO 500-1000 PPM MAY CAUSE HEADACHE,
RAPID BREATHING, NAUSEA, WEAKNESS, DIZZINESS AND CONFUSION.
Medical Cond Aggravated by Exposure:CARBON MONOXIDE BURDEN MAY
AGGRAVATE ANGINA PECTORIS. PREGNANT WOMEN ARE REPORTADLY MORE
SENSITIVE THAN OTHERS. EFFECTS OF CO EXPOSURE ARE AGGRAVATED BY
HEAV
Y LABOR, HEAT STRESS & HIGH ALTITUDE.

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

First Aid:REMOVE FROM EXPOSURE. ADMINISTER OXYGEN. CONSULT PHYSICIAN
IMMEDIATELY.

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

Extinguishing Media:THIS GAS MIXTURE IS NOT FLAMMABLE.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.
Unusua

I Fire/Explosion Hazard:GAS UNDER PRESSURE, 300 PSIG AT 70F. DO NOT EXCEED 120F.

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

Spill Release Procedures:VENTILATE AREA. AVOID BREATHING GAS.
Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE BELOW 120F. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:D

O NOT DEFACE CYLINDERS/LABELS. HANDLE CYLINDERS WITH PROPER CAUTION. AVOID BREATHING GAS. USE IN WELL-VENTILATED AREAS. FOLLOW THE CALIBRATION PROCEDURE DETAILED IN THE MSA INSTRUCTION MANUAL PROVIDE D WITH THE INSTRUMENT UNDER CALIBRATION.

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

Respiratory Protection:DUE TO THE LIMITED AMOUNT OF GAS IN THE CYLINDER, AND THE LOW RELEASE RATE EMPLOYED IN INSTRUMENT CALIBRATION, RESPIRATORY PROTECTION IS NOT INDICATED UNDER CONDITIONS OF INTENDED USE.

Ventilation:MECHANICAL VENTILATION IS SUITABLE.

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES AND HEARING PROTECTION.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS.

Supplemental Safety and Health
NONE

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

HCC:G3

Vapor Density:1

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DO NOT PUNCTURE OR INCINERATE CYLINDER. BEF

ORE

DISCARDING CYLINDER, SLOWLY RELEASE CONTENTS TO A SAFE EXHAUST.

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