

SCOTT SPECIALTY GASES -- CALIBERATING GAS -- 6830-00-182-6315

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

Product ID:CALIBERATING GAS

MSDS Date:10/16/1989

FSC:6830

NIIN:00-182-6315

MSDS Number: BLWBB

=== Responsible Party ===

Company Name:SCOTT SPECIALTY GASES

Address:ROUTE 611 NORTH

Box:D-11

City:PLUMSTEADVILL

State:PA

ZIP:18949

Country:US

Info Phone Num:215-766-8861

Emergency Phone Num:215-766-8861

CAGE

:51847

=== Contractor Identification ===

Company Name:SCOTT SPECIALTY GASES

Address:6141 EASTON RD (6141 ROUTE 611)

Box:310

City:PLUMSTEADVILL

State:PA

ZIP:18934

Country:US

Phone:215-766-8861/ FAX: 215-766-0416

CAGE:51847

Company Name:UNION CARBIDE CORP MATERIALS SYSTEMS DIVISION

Address:11901 MADISON AVE

Box:City:CLEVELAND

State:OH

ZIP:44101

Country:US

CAGE:05397

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

Ingred Name:OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Fraction b

y Wt: 21-22%  
Other REC Limits:NONE SPECIFIED

Ingred Name:NITROGEN  
CAS:7727-37-9  
RTECS #:QW9700000  
Fraction by Wt: 78-79%  
Other REC Limits:NONE SPECIFIED  
ACGIH TLV:ASPHYXIAN; 9192

Ingred Name:TRICHLOROFLUOROMETHANE (FREON-11) (SARA III)  
CAS:75-69-4  
RTECS #:PB6125000  
Fraction by Wt: 50% PPM  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1000 PPM  
ACGIH TLV:C, 1000 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical:1

Ingred Name:DICHLORODIFLUOROMETHANE (FREON 12) (SARA III)  
  
CAS:75-71-8  
RTECS #:PA8200000  
Fraction by Wt: 50% PPM  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical:1

Ingred Name:DICHLOROTETRAFLUOROETHANE (FREON 114) (SARA III)  
CAS:76-14-2  
RTECS #:KI1101000  
Fraction by Wt: 50% PPM  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9192  
Ozone Depleting Chemical:1

Ingred Name:HEXANE (N-HEXANE)  
CAS:110-54-3  
RTECS #:MN9275000  
Fraction by Wt: 10% P

PM  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:500 PPM  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:METHANE  
CAS:74-82-8  
RTECS #:PA1490000  
Fraction by Wt: 200% PPM  
Other REC Limits:NONE SPECIFIED  
ACGIH TLV:ASPHYXIAN; 9192

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and  
Chronic:ACUTE: NONE AT ATMOSPHERIC PRESSURES.  
CHRONIC: NONE.  
Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS  
LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:NONE  
Medical Cond Aggravated by Exposure:NONE

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

First Aid:INHALATION REMOVE TO FRESH AIR.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED  
CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:MIXTURE CONTAINING 21% OXYGEN SUPPORT  
COMBUSTION.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA.  
Neutralizing Agent:NOT APPLICABLE.

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

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Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL  
DAMAGE. STORE AWAY FROM EXTREME HEAT. KEEP CYLINDER VALVES CLOSED  
WHEN NOT IN USE AND WHEN EMPTY.  
Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS  
WITH PROPER CAUTION.

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

Ventilation:LOCAL EXHAUST  
Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.  
Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.  
Other Prot  
ective 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  
CALIBERATING GAS IS MOSTLY COMRESSED AIR, IT CONTAINS CONTAINS  
NGLIGIBLE AMOUNTS OF: 200 PPM MATHANE, 50 PPM FREON 114, 50 PPM  
UCON 11, 10 PPM HEXANE. MRF SENT MSDS FOR EACH CONSTITUENT, BUT ALL  
MSDS' S WERE COMBINED INTO ONE.

===== Ph  
ysical/Chemical Properties =====

HCC:G3  
Boiling Pt:B.P. Text:-318F,-194C  
Vapor Pres:GAS  
Vapor Density:1.0  
Solubility in Water:18.7 CM3/L  
Appearance and Odor:COLORLESS, ODOR LESS 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, OPEN FLAMES AND OTHER SOURCES  
OF IGNITION  
Hazardous Decomposition Products:SMALL AMOUNTS O

F PHOSGENE, HDROGEN  
CHLORIDE AND HYDROGEN FLOURIDE MAY BE PRODUCED

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

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. REMOVE ALL FLAMMABLE MATERIALS FROM VICINITY. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FED ERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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