

FEDERAL SPECIFICATIONS, PROMULGATED BY GSA -- BUTANE AND PROPANE GAS MIXTURE --
8120-00-530-5225

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

Product ID: BUTANE AND PROPANE GAS MIXTURE

MSDS Date: 12/22/1995

FSC: 8120

NIIN: 00-530-5225

MSDS Number: BYBYR

=== Responsible Party ===

Company Name: FEDERAL SPECIFICATIONS, PROMULGATED BY GSA

Address: X

City: WASHINGTON

State: DC

Country: US

Emergency Phone Num: 800-424-3900

Preparer's Name: HMIS-VBA 804-279-4371

CAGE: 81348

=== Contractor Identification ===

Company Name: EMPIRE BRASS FOUNDRY INC

Box: UNKNOWN

CAGE: 94558

Company Name: FEDERAL SPECIFICATIONS, PROMULGATED BY GSA

Box: City: WASHINGTON

State: DC

Country: US

CAGE: 81348

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

Ingred Name: PROPANE

CAS: 74-98-6

RTECS #: TX2275000

Other REC Limits: NONE SPECIFIED

OSHA PEL: 1000 PPM

ACGIH TLV: ASPHYXIAN; 9192

Ingred Name: BUTANE

CAS: 106-97-8

RTECS #: EJ420000

0
Other REC Limits:NONE RECOMMENDED
OSHA PEL:800 PPM
ACGIH TLV:800 PPM; 9495

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION OF CONCENTRATIONS BELOW
10,000 PPM HAS LITTLE PHYSIOLOGICAL EFFECT. HIGHER CONCENTRATIONS
MAY CAUSE DIZZINESS AND UNCONSCIOUSNESS DUE TO ASPHYXIATION. THERE
ARE NO REPORTED EFFECTS FROM LO
N G-TERM LOW-LEVEL EXPOSURE.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.
Effects of Overexposure:ABOVE 100,000 PPM; SYMPTOMS OF EXPOSURE MAY
INCLUDE DIZZINESS, STUPOR, AND UNCONSCIOUSNESS.
Medical Cond Aggravated by Exposure:NONE KNOWN

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

First Aid:INHALATION: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING,
GI
VE ARTIFICIAL RESPIRATION AND OXYGEN. GET MEDICAL HELP.

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

Flash Point Method:TCC
Flash Point:-156F,-104C
Autoignition Temp:Autoignition Temp Text:1.0 LB
Lower Limits:2.2
Upper Limits:9.5
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, OR DRY CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL
FIRE EXPOSED CONTAINERS WITH W
ATER SPRAY.
Unusual Fire/Explosion Hazard:CYLINDERS WILL EXPLODE IN THE HEAT OF
FIRE. COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS
DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:STOP LEAK IF POSSIBLE. ELIMINATE ALL SOURCES
OF IGNITION. VENTILATE AREA. EVACUATE ALL PERSONNEL. PROPANE IS
HEAVIER THAN AIR AND CAN SETTLE INTO LOW AREAS. REMAIN UPWIND OF
LEAK. PREVENT VAPOR FROM E NTERING INTO S

EWER, BASEMENTS OR
CONFINED AREAS.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:CYLINDERS SHOULD NOT BE DROPPED AND
STORED BELOW 120C AWAY FROM OPEN FLAMES.

Other Precautions:STORAGE TEMPERATURE SHOULD BE KEPT BELOW 125F.
CYLINDERS MUST NOT BE RECHARGED.

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

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS WHERE THE
CONCENTRATION OF PROPANE WOULD REDUCE OXYGEN LEVEL BELOW 18% IN
INHALED AIR.

Ventilation:USE EXPLOSION PROOF VENTILATION EQUIPMENT.

Protective Gloves:INSULATED LEATHER GLOVES AS REQUIRED.

Eye Protection:SAFETY GLASSES, GOGGLES OR FACE SHIELD

Other Protective Equipment:NONE NORMALLY REQUIRED.

Work Hygienic Practices:USE IN A WELL VENTILATED AREA. USE PROPER CARE
WHEN HANDLING AND STORING CYLINDERS.

Supplemental Safety and Health

REFER TO CGA BULLETIN SB-2 "OXYGEN DEFICIENT ATMOSPHERES".

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

HCC:G2

Boiling Pt:B.P. Text:-44F,-42C

Vapor Pres:240LB PSI

Vapor Density:2.53

Spec Gravity:1.56

Evaporation Rate & Reference:GAS

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS GAS, FAINT PETROLEUM ODOR.

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:CARBON MONOXIDE

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

Waste Disposal Methods:RECYCLE OR DISPOSE OFF IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner wha
tsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.