

HILLYARD CHEMICAL -- 413 GUM-GO  
MATERIAL SAFETY DATA SHEET  
HILLYARD CHEMICALNSN: 685000F014514  
Manufacturer's CAGE: 28745  
Part No. Indicator: A  
Part Number/Trade Name: 413 GUM-GO

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General Information

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Company's Name: HILLYARD CHEMICAL CO.  
Company's Street: 302 N. FOURTH ST.  
Company's City: ST. JOSEPH  
Company's State: MO  
Company's Zip Code: 64501  
Company's Emerg Ph #: (800) 255-4564  
Company's Info Ph #: (816) 233-1321  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 002  
Date MSDS Prepared: 12JAN89  
Safety Data Review Date: 05MAR91  
Preparer's Company: HILLYARD CHEMICAL CO.  
Preparer's St Or P. O. Box: 302 N. FOURTH ST.  
Preparer's City: ST. JOSEPH  
Preparer's State: MO  
Preparer's Zip Code: 64501  
MSDS Serial Number: BJVJK

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Ingredients/Identity Information

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Proprietary: NO  
Ingredient: ISOBUTANE, 2-METHYLPROPANE  
Ingredient Sequence Number: 01  
Percent: 44%  
NIOSH (RTECS) Number: TZ4300000  
CAS Number: 75-28-5  
OSHA PEL: 1800 MG/CUM  
ACGIH TLV: 1000 PPM  
Other Recommended Limit: 1000 PPM

Proprietary: NO  
Ingredient: PROPANE  
Ingredient Sequence Number: 02  
Percent: 56%  
NIOSH (RTECS) Number: TX2275000  
CAS Number: 74-98-6  
OSHA PEL: 1000 PPM  
ACGIH TLV: ASPHYXIAN; 9192  
Other Recommended Limit: 1800 MG/CUM

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR, COLORLESS, ODORLESS LIQUID IN AEROSOL CAN.  
Boiling Point: -42C  
Vapor Pressure (MM Hg/70 F): 100  
Vapor Density (Air=1): 1.5-2  
Specific Gravity: 0.57  
Evaporation Rate And Ref: (BU AC = 1): >1  
Solubility In Water: SLIGHT

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Fire and Explosion Hazard Data

Flash Point: -156F  
Flash Point Method: TCC  
Lower Explosive Limit: 1.9%  
Upper Explosive Limit: 9.5%  
Extinguishing Media: CO2, FOAM, FOG, HALON, WATERSPRAY  
Special Fire Fighting Proc: USE WATER SPRAY TO KEEP EXPOSED CONTAINERS COOL & VAPORS DOWN. WEAR SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire And Expl Hazrds: AEROSOL CONTAINER MAY BURST IF HEATED >130F. EXTREMELY FLAMMABLE CONTENTS.

#### Reactivity Data

Stability: YES  
Cond To Avoid (Stability): HEAT >130F, IGNITION SOURCES, SPARKS & OPEN FLAME.  
Materials To Avoid: STRONG OXIDIZERS  
Hazardous Decomp Products: CO, CO  
Hazardous Poly Occur: NO

#### Health Hazard Data

Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: NO  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: INHALATION: ANESTHETIC, ASPHYXIANT, DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE, NAUSEA, NERVOUS SYSTEM EFFECTS. SKIN/EYE: LIQUID OR GAS MAY CAUSE BURNING. INGESTION: GAS UNDER NORMAL ATMOSPHERIC CONDITIONS.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NONE  
Signs/Symptoms Of Overexp: INHALATION: UNCONSCIOUSNESS, COMA, SUFFOCATION. USE PROPER CHEMICAL HYGIENE TO AVOID THESE HAZARDS.  
Med Cond Aggravated By Exp: SKIN DISORDERS  
Emergency/First Aid Proc: EYE: FLUSH W/PLENTY OF WATER AT LEAST 15 MINUTES. SKIN: FLUSH OR IMMERSE AREA IN LUKEWARM WATER. KEEP WARM & STIMULATE CIRCULATION W/MASSAGE. INHALATION: REMOVE TO FRESH AIR, ADMINISTER ARTIFICIAL RESPIRATION. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES.

#### Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ISOLATE & VENTILATE AREA. REMOVE OR ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NEEDED, LET EVAPORATE.  
Waste Disposal Method: CONSULT LOCAL, STATE & FEDERAL REGULATIONS. DON'T PUNCTURE OR INCINERATE. REPLACE CAP ON EMPTY CONTAINER, WRAP & DISCARD IF ALLOWED BY RELEVANT STATUTES.  
Precautions-Handling/Storing: STORE IN COOL <120F, DRY LOCATION. DIRECT SPRAY AWAY FROM FACE. AVOID INHALING MIST & VAPORS. CONTENTS UNDER PRESSURE.  
Other Precautions: KEEP AWAY FROM HEAT, SPARKS/OPEN FLAME. KEEP OUT OF THE REACH OF CHILDREN. REPLACE CAP WHEN NOT IN USE. DON'T CONTAMINATE WATER, FOOD, OR FEEDSTUFFS BY USE OR STORAGE. DON'T INCINERATE & PUNCTURE CONTAINERS.

#### Control Measures

Respiratory Protection: NOT USUALLY NECESSARY. USE W/ADEQUATE VENTILATION

Ventilation: MECHANICAL: ACCEPTABLE. DON'T EXCEED PELS & TLV  
Protective Gloves: NOT USUALLY NECESSARY  
Eye Protection: SAFETY GLASSES, FACESHIELD  
Other Protective Equipment: AS NEEDED TO PREVENT ANTICIPATED BODY CONTACT,  
APRON, BOOTS, ETC.  
Work Hygienic Practices: WASH W/SOAP & WATER BEFORE EATING, DRINKING,  
USING RESTROOM, ETC.

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Transportation Data  
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Disposal Data  
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Label Data  
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Label Required: YES  
Label Status: G  
Common Name: 413 GUM-GO  
Special Hazard Precautions: INHALATION: ANESTHETIC, ASPHYXIANT,  
DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE, NAUSEA, NERVOUS  
SYSTEM EFFECTS. SKIN/EYE: LIQUID OR GAS MAY CAUSE BURNING. INGESTION: GAS  
UNDER NORMAL ATMOSPHERIC CONDITIONS. INHALATION: UNCONSCIOUSNESS, COMA,  
SUFFOCATION. USE PROPER CHEMICAL HYGIENE TO AVOID THESE HAZARDS.  
Label Name: HILLYARD CHEMICAL CO.  
Label Street: 302 N. FOURTH ST.  
Label City: ST. JOSEPH  
Label State: MO  
Label Zip Code: 64501  
Label Emergency Number: (800) 255-4564