

11/17/05

Material Safety Data Sheet

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SECTION I - Material Identity

Item Name	
Part Number/Trade Name	HA55120 - HEET GAS LINE ANTIFREEZE
National Stock Number	6850PHA55120
CAGE Code	2M612
Part Number Indicator	A
MSDS Number	186964
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	GOLD EAGLE CO
Street	4400 S. KILDARE BLVD
City	CHICAGO
State	IL
Country	US
Zip Code	60632-4372
Emergency Phone	800-424-9300 CHEMTREC
Information Phone	773-376-4400

MSDS Preparer's Information

Date MSDS Prepared/Revised	27OCT97
Date of Technical Review	14NOV94
Active Indicator	Y

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	YELLOW LIQUID, SOLVENT ODOR
Boiling Point	148 F (65C)
Melting Point	NR
Vapor Pressure	97
Vapor Density	1.1
Specific Gravity	0.795
Decomposition Temperature	N/K
Evaporation Rate	NR
Solubility in Water	SOLUBLE
Chemical pH	NA
Corrosion Rate	NR
Container Pressure Code	1
Temperature Code	4
Product State Code	L

SECTION IV - Fire and Explosion Hazard Data

Flash Point	52
Flash Point Method	TCC
Lower Explosion Limit	6.0
Upper Explosion Limit	36.5
Extinguishing Media	USE HALON REPLACEMENT OR CARBON DIOXIDE EXTINGUISHERS OR ALCOHOL FOAM FOR SMALL FIRES. WATER SPRAY OR FOG CAN COOL FIRE BUT MAY NOT BE EFFECTIVE IN EXTINGUISHING FIRE. LARGE FIRES SHOULD BE EXTINGUISHED WITH ALCOHOL FOAM. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE. CONTAINERS MAY EXPLODE IN HEAT OR FIRE
Special Fire Fighting Procedures	USE NIOSH APPROVED SCBA RESPIRATOR IN THE POSITIVE PRESSURE MODE AND CHEMICAL PROTECTIVE CLOTHING SPECIFICALLY RECOMMENDED FOR METHANOL
Unusual Fire/Explosion Hazards	DANGEROUS FIRE AND EXPLSION HAZARD WHEN EXPOSED TO HEAT OR FLAME. METHANOL IS EXTREMELY FLAMMABLE AND FORMS EXPLOSIVE MIXTURES WITH AIR. METHANOL VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	STORE IN A WELL VENTILATED PLACE AWAY FROM SOURCES OF IGNITION, COMBUSTIBLES, OXIDIZING MATERIALS AND ACID
Materials to Avoid	STRONG OXIDIZING AGENTS, ALUMINUM, ZINC, OR METALS THAT DISPLACE HYDROGEN, RUBBER

Hazardous Decomposition Products	AND RUBBER BASED COATINGS, CHROMIC ANHYDRIDE, LEAD PERCHLORATE AND PERCHLORIC ACIDS
Hazardous Polymerization	EXCESSIVE HEATING AND OR INCOMPLETE COMBUSTION WILL PRODUCE CARBON MONOXIDE AND TOXIC VAPORS SUCH AS FORMALDEHYDE
Polymerization Conditions to Avoid	NO
LD50 - LD50 Mixture	NR

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	DERMATITIS, POSSIBLE SYSTEMIC EFFECTS, IRRITANT
Carcinogenity: NTP	N/P
Carcinogenity: IARC	N/P
Carcinogenity: OSHA	N/P
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	[EYE] MILD IRRITANT [SKIN] PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS, SCALING AND POSSIBLE SYSTEMIC EFFECTS [INGEST] POISON - ORAL HUMAN LOWEST LETHAL DOSE IS 6.4 G/KG [INHAL] POISONOUS, NARCOTIC CHEMICAL AFFECTING CENTRAL NERVOUS SYSTEM RESULTING IN DIZZINESS, NAUSEA, VISUAL IMPAIRMENT, NARCOSIS AND MUSCULAR IMPAIRMENT
Medical Cond. Aggrevated by Exposure	NONE SPECIFIED BY MANUFACTURER
Emergency/First Aid Procedures	[EYE] IMMEDIATELY WASH THE EYES WITH LARGE QUANTITIES OF ROOM TEMPERATURE WATER FOR AT LEAST 15 MIN. OCCASIONALLY LIFT LIDS. GET MED ATTENTION. [SKIN] PROMPTLY WASH THE CONTAMINATED SKIN WITH SOAP AND WATER FOR AT LEAST 15 MIN. PROMPTLY REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. SYSTEMIC EFFECTS MAY BE DELAYED 18 - 72. KEEP PERSON UNDER OBSERVATION. [INGEST] IF THIS PRODUCT IS INGESTED AND THE PERSON IS CONSCIOUS, INDUCE VOMITING, THEN GIVE 2 TEASPOONS OF BAKING SODA IN A GLASS OF WATER. GET MED ATTEN. [INHAL] MOVE THE EXPOSED PERSON TO FRESH AIR AT ONCE AND CALL EMERGENCY MED CARE

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	[SMALL] REMOVE SOURCES OF HEAT OR IGNITION, PROVIDE ADEQUATE VENTILATION. CONTAIN LEAK USING ABSORBENT, INERT, NON-
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Neutralizing Agent	COMBUSTIBLE MATERIAL. [LARGE] CONTAIN SPILL, TRANSFER TO SECURE CONTAINER. IN THE EVENT OF UNCONTROLLED MATERIAL RELEASE, THE USER SHOULD DETERMINE IF RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS
Waste Disposal Method	NR DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF MSDS FOR HAZARD CAUTION INFORMATION
Handling and Storage Precautions	PRODUCT IS FLAMMABLE, KEEP AWAY FROM SOURCES OF IGNITION, COMBUSTIBLES, OXIDIZING MATERIALS AND ACIDS. STORE IN AN AREA EQUIPPED WITH AUTOMATIC SPRINKLERS OR FIRE EXTINGUISHING SYSTEM. EMPTY CONTAINERS CONTAIN PRODUCT RESIDUES, ASSUME EMPTIED CONTAINERS TO HAVE SAME HAZARDS AS FULL CONTAINERS
Other Precautions	NR

SECTION VIII - Control Measures

Respiratory Protection	DO NOT USE AIR PURIFYING RESPIRATOR. USE APPROPRIATE NIOSH APPROVED SUPPLIED OR SCBA. RESPIRATORS MUST BE SELECTED BASED ON THE AIRBORNE LEVELS FOUND IN THE WORKPLACE AND MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR
Ventilation	PROVIDE PROPERLY ENGINEERED VENTILATION TO MAINTAIN METHANOL VAPORS BELOW NIOSH PEL
Protective Gloves	SOLVENT RESISTANT GLOVES
Eye Protection	SPLASH PROOF SAFETY GOGGLES
Other Protective Equipment	CHEMICAL RESISTANT APRON OR CLOTHING AS NEEDED
Work Hygenic Practices	STANDARD PERSONAL HYGIENE
Supplemental Health/Safety Data	NONE SPECIFIED BY MANUFACTURER

SECTION IX - Label Data

Protect Eye	YES
Protect Skin	YES
Protect Respiratory	YES
Chronic Indicator	YES
Contact Code	SLIGHT
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	TARGET ORGANS: CENTRAL NERVOUS SYSTEM

SECTION X - Transportation Data

Container Quantity	12
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	6.63
Volatile Organic Compounds (G/L)	794.5315

SECTION XII - Ingredients/Identity Information

Ingredient #	02
Ingredient Name	PROPRIETARY ADDITIVE
CAS Number	1002
Proprietary	YES
Percent	1
OSHA PEL	NR
ACGIH TLV	NR
Ingredient #	1
Ingredient Name	METHANOL
CAS Number	67561
Proprietary	NO
Percent	99
OSHA PEL	200 PPM
ACGIH TLV	200 PPM

Zen Backpacking Stoves