



MATERIAL SAFETY DATA SHEET

ENVIROGEL MSDS # ENV-0057, ENV-0095, ENV-0118, ENV-0033

EFFECTIVE January 01, 2008

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ENVIROGEL HEATING GEL
GENERAL USE: AN ETHYL ALCOHOL MIXTURE IN GEL FORM USED FOR WARMING/COOKING
24 HOUR EMERGENCY TELEPHONE: (613)-996-6666* - USE IN CASE OF DANGEROUS GOODS EMERGENCY

ENVIROGEL INC.
322 ALBANY AVENUE
TORONTO, ONTARIO
M5R 3C9 (416)-346-4608

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	CAS RN.	EINECS/ELINCS	WT/WT%	SYMBOL	R PHRASES
SUGAR CANE ETHANOL (ETHANOL)	64-17-5	200-578-6	66%-79%	F	R11

SECTION 3 - HAZARDS IDENTIFICATION

FLAMMABLE SOLID, ALCOHOL GEL, CLEAR IN APPEARANCE WITH SLIGHT ALCOHOL ODOR.
PRECAUTIONARY LABELING. WARNING: KEEP AWAY FROM CHILDREN. DO NOT LEAVE CAN UNATTENDED
CAUTION: HARMFUL IF SWALLOWED. AVOID CONTACT WITH EYES. AVOID EXCESSIVE INHALATION. KEEP AWAY FROM FIRE
ROUTE(S) OF ENTRY: SKIN CONTACT, EYE CONTACT, INHALATION & INGESTION.

POTENTIAL HEALTH EFFECTS

SKIN CONTACT: MAY CAUSE MINOR SKIN IRRITATION DUE TO DIRECT CONTACT.
EYE CONTACT: IRRITANT TO EYE UPON DIRECT CONTACT
INHALATION: NO SEVERE EFFECTS ARE EXPECTED
INGESTION: CAUSES POTENTIAL CNS DEPRESSION, SLURRED SPEECH, IMPAIRED VISION, ALCOHOL BREATH, CONVULSIONS AND UNCONSCIOUSNESS WHEN INGESTED IN LARGE AMOUNTS. ROUTE OF EXPOSURE IS DEEMED UNLIKELY.

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT: FLUSH EXPOSED AREA WITH LUKEWARM WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR
EYE CONTACT: FLUSH EYE WITH LARGE AMOUNTS OF LUKEWARM WATER INTERMITTENTLY LIFTING UPPER AND LOWER LIDS IF IRRITATION PERSISTS, CONTACT A DOCTOR
INHALATION: MOVE INDIVIDUAL TO FRESH AIR. SEEK A DOCTOR IF BREATHING IS ALTERED OR SYMPTOMS PERSIST.
INGESTION: DRINK TWO GLASSES OF WATER IF SYMPTOMS PERSIST, CONTACT A DOCTOR.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: NOT APPLICABLE
AUTOIGNITION TEMPERATURE: 797°F (425°C)
MEANS OF EXTINCTION: WATER SPRAY, ALCOHOL RESISTANT FOAM, CO2, DRY CHEMICAL. WATER SPRAY MAY BE INEFFECTIVE IN LARGE FIRES BECAUSE IT WILL NOT COOL ALCOHOL BELOW ITS FLASH POINT.
SPECIAL FIRE FIGHTING PROCEDURES: WHEN FIGHTING ETHANOL FIRES, A SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN DO NOT USE A HIGH-PRESSURE STREAM OF WATER TO EXTINGUISH BURNING MATERIALS

UNUSUAL FIRE AND EXPLOSION HAZARD: CLOSED CANS EXPOSED TO FLAME AND HEAT MAY ERUPT, SCATTERING. IN CONDITIONS WHERE THERE IS INSUFFICIENT OXYGEN AND BURNING IS SLOW AND INCOMPLETE, COMBUSTION MAY PRODUCE CARBON DIOXIDE.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. FLUSH THE AREA WITH WATER. SOAK UP SPILL WITH ABSORBENT MATERIAL WHICH DOES NOT REACT WITH THE SPILLED CHEMICAL. PUT MATERIAL IN SUITABLE, COVERED, LABELED CONTAINERS ALWAYS WEAR PROTECTIVE EQUIPMENT.

SECTION 7 – HANDLING & STORAGE

STORAGE: STORE IN A COOL, DRY PLACE. STORE AWAY FROM SOURCES OF HEAT AND IGNITION KEEP CONTAINERS CLOSED WHEN NOT IN USE.
HANDLING: AVOID CONTACT WITH SKIN AND EYES. KEEP AWAY FROM CHILDREN DO NOT INGEST. KEEP AWAY FROM COMBUSTIBLE ITEMS LIKE PAPER PLATES, NAPKINS AND TABLECLOTHS. BEFORE LIGHTING, PLACE CAN IN FUEL HOLDER OR UNDER CHAFER BURN CAN IN A LEVEL, UPRIGHT POSITION

SECTION 8 – EXPOSURE CONTROL/ PERSONAL PROTECTION

ETHANOL EXPOSURE LIMITS

<u>INGREDIENT</u>	<u>ACGIH TLV</u>	<u>U.S. OSHA PEL</u>	<u>UK OEL</u>
ETHANOL	(8 HOUR TWA)	(8 HOUR TWA)	(8 HOUR TWA)
	1000 ppm	1900 mg/m ³	1920 mg/m ³
	1000 ppm	1000 ppm	

GENERAL CONTROLS: PROVIDE ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN AND EYES. KEEP CONTAINER CLOSED WHEN NOT IN USE.
PROTECTIVE CLOTHING. RUBBER GLOVES AND EYE GOGGLES ARE RECOMMENDED.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<u>PHYSICAL STATE</u>	<u>ODOR & APPEARANCE</u>	<u>ODOR THRESHOLD</u>
GEL, SOLID	TRANSPARENT, ALCOHOL GEL	N/A
<u>VAPOR DENSITY (AIR=1)</u>	<u>VAPOR PRESSURE</u>	<u>EVAPORATION RATE</u>
N/A	N/A	N/A
<u>BOILING POINT</u>	<u>FREEZING POINT</u>	<u>pH</u>
N/A	N/A	6-5 – 7-5 (as is)
<u>COEFFICIENT OF WATER/OIL DISTRIBUTION</u>		<u>SOLUBILITY IN WATER</u>
N/A		MODERATE
<u>SPECIFIC GRAVITY (H₂O=1) AT 80°F</u>		
N/A		

SECTION 10 – STABILITY & REACTIVITY

STABILITY. THIS PRODUCT IS STABLE UNDER NORMAL TEMPERATURE AND PRESSURE
INCOMPATIBLE MATERIALS: HEAT, OPEN FLAME, STRONG OXIDIZING AGENTS, ACIDS, ACID CHLORIDES, AMMONIA, HYDRAZINE, MERCURIC NITRATE, PEROXIDES, POTASSIUM ACID ANHYDRIDES, PERCHLORIC ACID AND METAL PERCHLORATES, POTASSIUM-TERT-BUTOXIDE, SILVER NITRATE AND SODIUM.
HAZARDOUS DECOMPOSITION NONE KNOWN

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY: THE TABLE BELOW INDICATES WHETHER OR NOT EACH AGENCY HAS LISTED EACH INGREDIENT AS A CARCINOGEN.

<u>INGREDIENT</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>
ETHANOL	A4	NOT LISTED*	NOT LISTED

NOT CLASSIFIABLE AS A HUMAN CARCINOGEN

* OCCUPATIONAL EXPOSURE TO ETHANOL HAS NOT BE ASSOCIATED WITH CARCINOGENICITY

ACUTE TOXICITY DATA:

<u>INGREDIENT</u>	<u>LD50 ORAL(mg/kg)</u>	<u>LD50 DERMAL(mg/kg)</u>	<u>LC50 INHALATION(mg/m3, 4 hrs.)</u>
ETHANOL	7060 (RAT)	NOT AVAILABLE	39,000 (MOUSE)

SECTION 12 – ECOLOGICAL INFORMATION

ETHANOL IS NOT EXPECTED TO BIO-CONCENTRATE OR ABSORB TO AQUATIC SEDIMENTS. ETHANOL WILL VOLATIZE AND BIODEGRADE RAPIDLY IN WATER.

SECTION 13 – DISPOSAL REQUIREMENTS

USA: US GUIDELINES FOR DISPOSAL PRACTICE SHOULD BE FOLLOWED AND IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE PURCHASER IS RESPONSIBLE FOR PROPER WASTE DISPOSAL OF EMPTY, PARTIAL OR FULL CANS. DO NOT DUMP INTO SEWERS, ONTO THE GROUND OR INTO ANY BODY OF WATER.

SECTION 14 – TRANSPORT INFORMATION

DOT CLASSIFICATION: ENV-0057, ENV-0095, ENV-0118, ENV-0033

—DOMESTIC: CONSUMER COMMODITY, ORM-D

—INTERNATIONAL: FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL) 4.1, UN1325, III

* ENVIROGEL HEATING GEL MAY BE SHIPPED IN ACCORDANCE TO DOT-SP 9275 AS ENVIROGEL HAS BEEN GRANTED PARTY STATUS TO DOT-SP 9275 IN ACCORDANCE WITH 49 CFR § 107.107.

SECTION 15 – REGULATORY INFORMATION

HMS & NFPA HAZARD RATING.

<u>CATEGORY</u>	<u>HMS</u>	<u>NFPA</u>
ACUTE HEALTH	1	1
FLAMMABILITY	3	3
REACTIVITY	0	0

USA:

TSCA STATUS: ETHANOL IS LISTED ON THE TSCA INVENTORY.

SARA TITLE III: ETHANOL, CAS# 64-17-5: ACUTE, CHRONIC, FLAMMABLE

SEC 313: N/A

CERCLA: N/A

RIGHT TO KNOW: ETHYL ALCOHOL CAN BE FOUND ON THE FOLLOWING RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, PENNSYLVANIA, MINNESOTA AND MASSACHUSETTS

CLEAN AIR ACT: N/A

CLEAN WATER ACT: N/A

SECTION 16 – OTHER INFORMATION

RISK PHRASES IN SECTION 2: R11-HIGHLY FLAMMABLE

TEXT OF CLASSIFICATIONS IN SECTION 2: F-HIGHLY FLAMMABLE

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JANUARY 1, 2008.