

MATERIAL SAFETY DATA SHEET

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SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME: Gelled Ethanol	FORMULA: N/A
SYNONYMS:	FORMULA WT: N/A
CAS #:	
UN #:	
RTECS #:	

SECTION 2 - COMPONENTS

Ingredients	% W/W	CAS or UN#	TLV	HAZARD	LD ₅₀ /LC ₅₀
Ethanol 95%	90-99	64-17-5	1000ppm	Irritant	2500mg/kg Rat Oral
				Mutagen	500mg/kg Mouse Intraperitoneal
				Tumorigen	1440mg/kg Rat Intravenous
Bitrex	29 ppm	3734-33-6	N/A	Irritant	508mg/kg Rabbit Oral
Acrylic Copolymer	1-3	Proprietary	N/A	Irritant	N/A
Coco-alkyl ethoxylated amine	0.1-1	61791-14-8	N/A	Irritant	750mg/kg Rat Oral

Only selected RTECS Data presented here. See actual entry for complete details.

SECTION 3 - PHYSICAL DATA FOR MATERIAL

APPEARANCE:	Colourless gel	SOLUBILITY IN WATER:	Soluble
ODOR DESCRIPTION:	Characteristic Odour	BOILING POINT:	>78°C
VAPOR PRESSURE (20 C, mm Hg):	44	% VOLATILES:	98.8
VAPOR DENSITY (AIR=1):	1.63	FREEZING POINT:	-117°C
SPECIFIC GRAVITY @ 25°C (WATER=1):	0.81		

SECTION 4 - FIRE & EXPLOSION HAZARD OF MATERIAL

FLASH POINT (CC):	16°C
EXTINGUISHING MEDIA:	CO ₂ , dry chemical powder, polymer foam. If water must be used, it should be as a spray only.
UNUSUAL FIRE & EXPLOSION HAZARD:	Flammable liquid. Avoid heat, sparks, and open flame.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide and Carbon dioxide, various hydrocarbons.
FLAMMABLE LIMITS	
LOWER EXPLOSION LIMIT:	3.3
AUTO-IGNITION TEMP:	422°
SENSITIVE TO MECHANICAL IMPACT:	N/A
SENSITIVE TO STATIC DISCHARGE:	Yes
UPPER EXPLOSION LIMIT:	19

SECTION 5 - REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	Sources of ignition
MATERIALS TO AVOID:	Strong oxidizers, bases and acids
HAZARDOUS POLYMERIZATION:	None

SECTION 6 - PREVENTIVE MEASURES

RESPIRATORY PROTECTION:	If vapor concentration is high, due to heat, use an approved organic vapour respirator.
VENTILATION:	Self-contained, non-sparking, grounded fumehood is recommended.
PROTECTIVE GLOVES:	Neoprene, butyl or natural rubber.
EYE PROTECTION:	Splash-proof safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT:	Safety shower, eye wash.
SPILL OR LEAK PROCEDURES:	Contain spilled material. Remove sources of ignition. Wear self-contained breathing apparatus, rubber boots and gloves. Cover with carbon absorber, dry lime or soda ash and place in a closed container.
WASTE DISPOSAL METHOD:	Incineration or sanitary landfill in accordance with local, provincial/state and federal regulations.
HANDLING PROCEDURES:	Do not breath vapors, get in eyes or on skin. Wash thoroughly after handling.
STORAGE REQUIREMENTS:	Store in tightly closed container in a cool, dry place. Keep from heat, sparks or flame.

SECTION 7 - HEALTH HAZARD & FIRST AID MEASURES

Carcinogen		Mutagen	X	Teratogen
Reproductive Toxin	X	See Below	Synergist	Not Fully Investigated

There is evidence that chronic consumption of ethanol can lead to production of a mutagen in the liver. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have been collectively termed the fetal alcohol syndrome.

SKIN:	Flush contaminated area with water for at least 20 minutes. If irritation occurs, seek medical attention.
EYE:	Immediately flush eyes with water for at least 20 minutes, holding the eyelids open. Seek medical attention immediately.
INHALATION:	Remove to fresh air. Oxygen may be given if necessary. Seek medical attention immediately.
INGESTION:	If conscious, have victim drink water or milk to dilute material in stomach. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Seek medical attention immediately.
PRIMARY ROUTE OF ENTRY:	Ingestion or inhalation.
EFFECT OF ACUTE EXPOSURE:	Dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma. High vapor concentration may cause burning sensation in mucous membranes and upper respiratory tract.
EFFECT OF CHRONIC EXPOSURE:	May result in progressive liver injury with fibrosis.
PREPARATION DATE:	Feb. 16, 2011

ADDITIONAL INFORMATION:	Severe eye irritant, flammable liquid. Vapor may travel a considerable distance to an ignition source.
SOURCES USED:	RTECS, MERCK INDEX, Supplier MSDS

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