



CTC PRODUCTS INC.
377 RUE DUPUY
QUEBEC, QUEBEC
G1L 1P2 CANADA

TEL : 418-831-1135 FAX : 418-831-1137

PRODUCT: **GALVANOL**

CODE: 300036/37/38

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER..... CTC PRODUCTS INC
377 DUPUY STREET
QUEBEC, QUEBEC
CANADA
G1L 1P2

PRODUCT NAME..... GALVANOL

PRODUCT CODE..... 300036, 300037, 300038

CHEMICAL FORMULA..... C6H12O3.

CHEMICAL FAMILY..... GLYCOL ETHERS.

MOLECULAR WEIGHT..... 132.16.

MATERIAL USE..... SOLVENT.

EMERGENCY PHONE NO..... (418) 831-1135.

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD..... WARNING.

HAZARD CLASSIFICATION..... FLAMMABLE LIQUIDS — CATEGORY 3.

HAZARD STATEMENT..... H226 FLAMMABLE LIQUID AND VAPOUR.

PRECAUTIONARY STATEMENT..... P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES – NO SMOKING... P233 KEEP CONTAINER TIGHTLY CLOSED. P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL RESISTANT FOAM FOR EXTINCTION. P403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

OTHER HAZARDS..... VAPOURS CAN ACCUMULATE IN LOW AREAS.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
1-METHOXY-2-PROPANOL ACETATE	108-65-6	99.7
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	<0.3

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE:.....	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF DANGEROUS AREA.
IF INHALED:.....	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.
IN CASE OF SKIN CONTACT:.....	WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.
IN CASE OF EYE CONTACT:.....	WASH EYES WITH COPIOUS AMOUNT OF WATER.
IF SWALLOWED:.....	DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. DO NOT LEAVE VICTIM UNATTENDED.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY.....	FLAMMABLE IN THE PRESENCE OF A SOURCE OF IGNITION WHEN THE TEMPERATURE IS ABOVE THE FLASH POINT. KEEP AWAY FROM HEAT/SPARK/OPEN FLAME/HOT SURFACE. NO SMOKING.
SUITABLE EXTINGUISHING MEDIA.....	SUITABLE FOR SURROUNDING FIRE. CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM, WATER FOG. HAZARDOUS COMBUSTION PRODUCTS CARBON OXIDES.

SECTION 05: FIRE FIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	WHEN HEATED ABOVE THE FLASH POINT, RELEASES FLAMMABLE VAPOURS. WHEN MIXED WITH AIR AND EXPOSED TO IGNITION SOURCE, VAPORS CAN BURN IN OPEN OR EXPLODE IF CONFINED. VAPOURS MAY BE HEAVIER THAN AIR. MAY TRAVEL LONG DISTANCES ALONG THE GROUND BEFORE IGNITING AND FLASHING BACK TO VAPOUR SOURCE . FINE SPRAY/MISTS MAY BE COMBUSTIBLE AT TEMPERATURE BELOW NORMAL FLASH POINT.
SPECIAL PROCEDURES.....	EVACUATE HAZARD AREA. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS. USE WATER TO COOL CONTAINERS.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:.....	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF IGNITION. EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.
ENVIRONMENTAL PRECAUTIONS:.....	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	CONTAIN SPILLAGE AND THEN COLLECT WITH ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET-BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING.....	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING MIST OR VAPOUR. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE. GROUND TRANSFER EQUIPMENT TO AVOID STATIC ELECTRICITY.
CONDITIONS FOR SAFE STORAGE.....	PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN A COOL AND WELL-VENTILATED AREA.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	REL
ENGINEERING CONTROLS.....	GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS.				
SKIN AND BODY PROTECTION.....	IMPERVIOUS CLOTHING. FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING. THE TYPE OF EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.				
RESPIRATORY PROTECTION.....	USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.				
EYE/FACE PROTECTION.....	SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.				
HYGIENIC MEASURES.....	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.				
OTHER/TYPE.....	EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	COLORLESS LIQUID.
ODOUR.....	ESTER-LIKE.
ODOUR THRESHOLD.....	NO DATA AVAILABLE.
PH.....	6.8.
MELTING POINT/FREEZING POINT (C)...	-65 C.
BOILING POINT.....	146 (C).
FLASH POINT (C), METHOD.....	45.5 C (CLOSED CUP).
EVAPORATION RATE.....	0.3.
FLAMMABILITY (SOLIDS AND GASES).....	NOT APPLICABLE.
UPPER FLAMMABLE LIMIT (% BY VOL.)..	12.0.
LOWER FLAMMABLE LIMIT (% BY VOL.).	1.5.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

VAPOUR PRESSURE.....	0.0079 hPa.
VAPOUR DENSITY (AIR=1).....	4.60.
SPECIFIC GRAVITY (WATER=1).....	0.96.
SOLUBILITY IN WATER (% W/W).....	SOLUBLE.
AUTO IGNITION TEMPERATURE.....	318 C.
PARTITION COEFFICIENT:	log Pow: 0.36 @25 C.
N-OCTANOL/WATER	
DECOMPOSITION TEMPERATURE.....	NO DATA AVAILABLE.
VISCOSITY.....	1.1 mm ² /S.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:.....	MAY REACT WITH OXYGEN TO FORM PEROXIDES.
CHEMICAL STABILITY:.....	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS	NOT EXPECTED TO OCCUR.
REACTIONS	
CONDITIONS TO AVOID:.....	HEAT, SPARKS AND OPEN FLAME. EXTENDED CONTACT WITH AIR OR OXYGEN.
INCOMPATIBLE MATERIALS :	STRONG OXIDIZING AGENTS. MOISTURE AND HUMIDITY.
HAZARDOUS DECOMPOSITION	CARBON OXIDES.
PRODUCTS	

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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1-METHOXY-2-PROPANOL ACETATE

ACUTE TOXICITY:

ORAL LD50.....	SEE ABOVE.
INHALATION LC50.....	SEE ABOVE.
DERMAL LD50.....	DERMAL-RAT- >2000 mg/kg.
SKIN CORROSION / IRRITATION.....	RABBIT- NO SKIN IRRITATION - 4H.
SERIOUS EYE DAMAGE / EYE IRRITATION	MAY CAUSE MODERATE EYE IRRITATION. ORAL-RAT- >5000 mg/kg
RESPIRATORY OR SKIN SENSITIZATION	NO EVIDENCE WAS FOUND OF RESPIRATORY OR SKIN SENSITIZATION.
GERM CELL MUTAGENICITY.....	NO EVIDENCE FOUND OF MUTAGENICITY.
CARCINOGENICITY.....	ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH. IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC.
REPRODUCTIVE TOXICITY.....	NO EVIDENCE FOUND OF REPRODUCTIVE TOXICITY.
STOT- SINGLE EXPOSURE.....	HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.
STOT - REPEAT EXPOSURE.....	NO DATA AVAILABLE.
ASPIRATION HAZARD.....	NO DATA AVAILABLE.
POTENTIAL HEALTH EFFECTS.....	INHALATION - MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION - MAY BE HARMFUL IF SWALLOWED. SKIN - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE SKIN IRRITATION. EYES - MAY CAUSE EYE IRRITATION.
SIGNS AND SYMPTOMS OF EXPOSURE.	TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY.....	READILY BIODEGRADABLE.
BIOACCUMULATIVE POTENTIAL.....	BIOCONCENTRATION FACTOR (BCF): 3.16.
TOXICITY.....	TOXICITY TO FISH: LC50- SALMO GAIIRDNERI - 100-180 mg/L - 96H . EC50 DAPHNIA MAGNA (WATER FLEA) - >500 mg/L - 48H.
MOBILITY IN SOIL.....	NO DATA AVAILABLE.
OTHER ADVERSE EFFECTS.....	BIOCHEMICAL OXYGEN DEMAND (BOD)- 0.36 mg/L.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:.....	BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENCED DISPOSAL COMPANY.
PACKAGING:.....	DISPOSE OF AS UNUSED PRODUCT.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER.....	3272.
TDG CLASSIFICATION.....	3.
PACKING GROUP.....	III.
PROPER SHIPPING NAME.....	1-METHOXY-2-PROPANOL ACETATE.
SPECIAL SHIPPING INSTRUCTIONS.....	NOT REGULATED <450L.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....	B3.
HPR COMPLIANCE.....	THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE HPR AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR.

SECTION 16: OTHER INFORMATION

N.AP.=NOT APPLICABLE

N.AV.=NOT AVAILABLE

REPAIRED BY..... CTC PRODUCTS INC

PREPARATION DATE..... OCT/28/2019

