



CANADA COLORS AND CHEMICALS LIMITED
80 SCARSDALE ROAD
DON MILLS, ONTARIO M3B 2R7
(416)-449-7750

PRODUCT : TEXANOL

CODE: 913850

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER.....EASTMAN CHEMICAL CANADA INC.
11 ALLSTATE PARKWAY, SUITE 430
MARKHAM, ONTARIO
CANADA ; L3R 9T8

PREPARED BY.....ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT
PREPARATION DATE.....FEB 03/1999
PRODUCT NAME.....TEXANOL
PRODUCT CODE.....913850
CHEMICAL FORMULA.....C12H24O3
MOLECULAR WEIGHT.....216.36
CHEMICAL FAMILY.....N.AV.
MATERIAL USE.....SOLVENT
EMERGENCY PHONE NO.....(416)-444-2112

SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONO- ISOBUTYRATE % :100 CAS #:25265-77-4	--	>3.2 G/KG (ORL-RAT)	N.AV.

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT.....LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.
SKIN ABSORPTION.....N.AV.
EYE CONTACT.....ESSENTIALLY NONIRRITATING, BUT CONTACT MAY CAUSE SLIGHT
TRANSIENT IRRITATION. MAY CAUSE IRRITATION IF NOT FLUSHED
WITH WATER IMMEDIATELY.
INHALATION.....LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.
INGESTION.....EXPECTED TO BE A LOW INGESTION HAZARD.
EFFECTS OF ACUTE EXPOSURE.....SEE ABOVE
EFFECTS OF CHRONIC EXPOSURE.....SEE ABOVE

SECTION 04: FIRST AID MEASURES

INSTRUCTIONS:.....IN CASE OF INGESTION, OBTAIN MEDICAL ATTENTION IMMEDIATELY.
DO NOT GIVE ANYTHING BY MOUTH TO A CONVULSING OR
UNCONSCIOUS PERSON. EYES: ANY MATERIAL THAT CONTACTS THE
EYE SHOULD BE WASHED OUT IMMEDIATELY. IF EASY TO DO, REMOVE
CONTACT LENSES. IF THE SYMPTOMS PERSIST, CONSULT A
PHYSICIAN. IN CASE OF SKIN CONTACT: WASH SKIN WITH LARGE
AMOUNTS OF RUNNING WATER, AND SOAP IF AVAILABLE, FOR 15
MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. IN
CASE OF INHALATION, REMOVE TO FRESH AIR. IF THE SYMPTOMS
PERSIST, CONSULT A PHYSICIAN.

SECTION 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS.....NOT REGULATED
FLAMMABILITY.....SEE FLASH POINT

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SECTION 05: FIRE FIGHTING MEASURESIF YES, UNDER WHICH
CONDITIONS?EXTINGUISHING MEDIA.....CARBON DIOXIDE, DRY CHEMICAL, FOAM. WATER
SPECIAL PROCEDURES.....FIREFIGHTERS SHOULD WEAR THE USUAL PROTECTIVE GEAR;
SELF-CONTAINED BREATHING APPARATUS.

FLASH POINT (C), METHOD.....120 C. (C.O.C.)

AUTO IGNITION TEMPERATURE.....393 (C)

UPPER FLAMMABLE LIMIT (% BY.....4.24
VOL.)LOWER FLAMMABLE LIMIT (% BY.....0.62
VOL.)

EXPLOSION DATA

EXPLOSIVE POWER.....N.AV.

RATE OF BURNING.....N.AV.

SENSITIVITY TO STATIC.....N.AV.
DISCHARGE

SENSITIVITY TO IMPACT.....N.AV.

UNUSUAL FIRE AND EXPLOSION.....NONE

HAZARDS

HAZARDOUS COMBUSTION PRODUCTS....CARBON DIOXIDE. CARBON MONOXIDE

SECTION 06: ACCIDENTAL RELEASE MEASURESLEAK/SPILL.....WEAR PROTECTIVE EQUIPMENT. ABSORB WITH INERT MATERIAL.
COLLECT AND CONTAIN IN SUITABLE DISPOSAL CONTAINERS. FLUSH
AREA WITH WATER; PREVENT WASHINGS FROM ENTERING WATERWAYS.**SECTION 07: HANDLING AND STORAGE**HANDLING PROCEDURES AND.....KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. KEEP AWAY FROM
EQUIPMENT INCOMPATIBLES. MINIMIZE EXPOSURE TO AIR. IF PEROXIDE
FORMATION IS SUSPECTED, DO NOT OPEN OR MOVE CONTAINER.
MAINTAIN A GOOD PERSONAL HYGIENE.STORAGE NEEDS.....KEEP CONTAINER CLOSED WHEN NOT IN USE. TO MAINTAIN PRODUCT
QUALITY, DO NOT STORE IN HEAT OR DIRECT SUNLIGHT. STORE
AWAY FROM INCOMPATIBLE MATERIALS.**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE.....WEAR IMPERVIOUS GLOVES.

RESPIRATORY/TYPE.....A RESPIRATOR SHOULD BE WORN IF NEEDED AND MUST BE WORN IF
EXPOSURE IS LIKELY TO EXCEED RECOMMENDED EXPOSURE LIMITS
(WHEN AVAILABLE). RESPIRATOR TYPE: MIST, ORGANIC VAPOUR

EYE/TYPE.....SAFETY GLASSES WITH SIDE-SHIELDS.

FOOTWEAR/TYPE.....NO SPECIAL REQUIREMENTS.

CLOTHING/TYPE.....WEAR ADEQUATE PROTECTIVE CLOTHES.

OTHER/TYPE.....EYE BATH AND SAFETY SHOWER.

ENGINEERING CONTROLS.....GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER
HOUR) SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.
VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS.
SUPPLEMENTARY LOCAL EXHAUST VENTILATION, CLOSE SYSTEMS, OR
RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL
CIRCUMSTANCES SUCH AS POORLY VENTILATED SPACES, MECHANICAL
GENERATION OF DUSTS, HEATING, DRYING, ETC..**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....LIQUID

ODOUR.....SLIGHT

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

ODOUR THRESHOLD.....N.AV.
VAPOUR PRESSURE (MMHG).....0.01. @ 20(C)
VAPOUR DENSITY (AIR=1).....7.5
EVAPORATION RATE.....0.002
BOILING POINT.....244 (C)
PH.....N.AV.
SPECIFIC GRAVITY (WATER=1).....0.95
SOLUBILITY IN WATER (% W/W).....500 - 860 MG/L @ 20(C)
COEFFICIENT OF WATER/OIL DIST....LOG P=3.47, P = 2951

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
YES.....YES
NO, WHICH CONDITIONS?
COMPATABILITY WITH OTHER
SUBSTANCES:
YES
NO, WHICH ONES?.....OXIDIZING AGENTS
REACTIVITY CONDITIONS?.....CONTACT WITH INCOMPATIBLES.
HAZARDOUS PRODUCTS OF.....SEE HAZARDOUS COMBUSTION PRODUCTS
DECOMPOSITION
HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL.....NOT ESTABLISHED
LC 50 OF MATERIAL, SPECIES &.....>3.55 MG/L/6HRS. (RAT)
ROUTE
LD 50 OF MATERIAL, SPECIES &.....6.86 ML/KG. (ORAL-RAT). >20 ML/KG. (DERMAL-GUINEA PIG)
ROUTE
CARCINOGENICITY OF MATERIAL.....NONE
REPRODUCTIVE EFFECTS.....NONE KNOWN
MUTAGENICITY.....NEGATIVE
SIGNIFICANT LABORATORY DATA.....HYALINE DROPLET FORMATION HAS BEEN OBSERVED IN MALE RATS
WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUTION EXPOSED TO THIS MATERIAL. SOME HYDROCARBONS CAN INDUCE
KIDNEY NECROSIS IN MALE RATS DUE TO THE ACCUMULATION OF A
CHEMICAL-PROTEIN COMPLEX (HYALINE DROPLET FORMATION). THE
NECROSIS AND CONSEQUENT CELL REGENERATION ARE BELIEVED TO
RESULT IN KIDNEY TUMORIGENESIS. SINCE THE PROTEIN INVOLVED
IS FOUND PREDOMINANTLY IN MALE RATS (AND NOT IN HUMANS),
NECROSIS BY THIS MECHANISM IS NOT PREDICTIVE OF HUMAN RISK.
IRRITANCY OF MATERIAL.....SLIGHT -. (EYES, SKIN - RABBIT)
SENSITIZING CAPABILITY OF.....NONE
MATERIAL
SYNERGISTIC MATERIALS.....N.AV.

SECTION 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL TOXICITY.....INTRODUCTION: THIS ENVIRONMENTAL EFFECTS SUMMARY IS WRITTEN
INFORMATION TO ASSIST IN ADDRESSING EMERGENCIES CREATED BY AN
ACCIDENTAL SPILL WHICH MIGHT OCCUR DURING THE SHIPMENT OF
THIS MATERIAL, AND, IN GENERAL, IT IS NOT MEANT TO ADDRESS
DISCHARGES TO SANITARY SEWERS OR PUBLICALLY OWNED TREATMENT
WORKS. DATA FOR THIS MATERIAL HAVE BEEN USED TO ESTIMATE
ITS ENVIRONMENTAL IMPACT. IT HAS THE FOLLOWING PROPERTIES:.
A MODERATE POTENTIAL TO AFFECT SOME AQUATIC ORGANISMS. A
MODERATE POTENTIAL TO AFFECT ALGAL GROWTH. A LOW POTENTIAL
TO AFFECT SECONDARY WASTE TREATMENT MICROBIAL RESPIRATION.
THE SUBJECT PRODUCT IS EXPECTED TO BIODEGRADE AND IS NOT

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SECTION 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL TOXICITY.....EXPECTED TO PERSIST FOR LONG PERIODS IN A AQUATIC
INFORMATION ENVIRONMENT. 5-HOUR IC50:. >215 MG/L. A LOW POTENTIAL TO
AFFECT THE GERMINATION AND/OR EARLY GROWTH OF SOME PLANTS.
THE SUBJECT PRODUCT IS EXPECTED TO BIODEGRADE AND IS NOT
EXPECTED TO PERSIST FOR LONG PERIODS IN AN AQUATIC
ENVIRONMENT. WHEN DILUTED WITH A LARGE AMOUNT OF WATER,
THIS MATERIAL RELEASED DIRECTLY OR INDIRECTLY INTO THE
ENVIRONMENT IS NOT EXPECTED TO HAVE A SIGNIFICANT IMPACT.
OXYGEN DEMAND DATA:. COD (G OXYGEN/G):. 2.1. THOD (G
OXYGEN/G):. 2.4. ACUTE AQUATIC EFFECTS DATA:. 96-HR. LC50
FATHEAD MINNOW MG/L:. 32 uL/L. 48-HR EC-50 WATER FLEA
(DAPHNIA) MG/L:. >100 MICROLITRE/L. 96-H LC50 (PILL BUG):.
96-H LC50 (SIDESWIMMER):. 96-H LC50 (RAMSHORN SNAIL):. >100
MICROLITRE/L. 96-H LC50 (FLATWORMS) MG/L:. 40 uL/L. 96-H
LC50 (AQUATIC EARTHWORM):. 32 uL/L. ACUTE ALGAL EFFECTS:.
72-H EC50 (SELENASTRUM CAPRICORNUTUM):. 18 MG/L,

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL
REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER.....N.AP.
T.D.G. CLASSIFICATION.....NOT REGULATED
PACKING GROUP.....N.AP.
SPECIAL SHIPPING INSTRUCTIONS.....N.AP.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....THIS IS NOT A CONTROLLED PRODUCT
CPR COMPLIANCE.....THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE
HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE
INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

N.AV.=NOT AVAILABLE
N.AP.=NOT APPLICABLE