



Canada Colors and Chemicals Limited

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

PRODUCT: PARATENE MF80

CODE: 242444

### Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... CANADA COLORS AND CHEMICALS LIMITED  
80 SCARSDALE ROAD,  
DON MILLS, ONTARIO  
M3B 2R7  
PREPARED BY..... Regulatory Affairs  
PREPARATION DATE..... Mar02/06  
PRODUCT NAME..... PARATENE MF80  
PRODUCT CODE..... 242444  
CHEMICAL FORMULA..... MIXTURE.  
MATERIAL USE..... REFER TO TECHNICAL LITERATURE.  
EMERGENCY PHONE NO..... (416)-444-2112.

### Section 02: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
METHANOL	10-30	SEE SECTION 11	67-56-1	SEE SECTION 11	SEE SECTION 11

### Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:  
SKIN CONTACT..... IRRITANT.  
SKIN ABSORPTION..... METHANOL CAN BE ABSORBED THROUGH THE SKIN IN TOXIC AND LETHAL AMOUNTS.  
EYE CONTACT..... MODERATE IRRITANT. HIGH CONCENTRATION OR LIQUID CONTACT WITH EYES MAY CAUSE IRRITATION, TEARING AND BURNING.  
INHALATION..... INHALATION OF HIGH AIRBORNE CONCENTRATIONS CAN ALSO IRRITATE MUCOUS MEMBRANES, CAUSE HEADACHES, SLEEPINESS, NAUSEA, CONFUSION, LOSS OF CONSCIOUSNESS, DIGESTIVE AND VISUAL DISTURBANCES AND DEATH. NOTE: THE ODOUR THRESHOLD OF METHANOL IS SEVERAL TIMES HIGHER THAN THE TLV-TWA.  
INGESTION..... SWALLOWING EVEN SMALL AMOUNTS OF METHANOL MAY CAUSE BLINDNESS OR DEATH. EFFECTS OF SUB LETHAL DOSES MAY BE NAUSEA, HEADACHE, ABDOMINAL PAIN, VOMITING AND VISUAL DISTURBANCES RANGING FROM BLURRED VISION TO LIGHT SENSITIVITY.  
EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.  
EFFECTS OF CHRONIC EXPOSURE..... CONTAINS METHANOL. REPEATED EXPOSURE BY INHALATION OR ABSORPTION MAY CAUSE SYSTEMIC POISONING, BRAIN DISORDERS, IMPAIRED VISION AND BLINDNESS. INHALATION MAY WORSEN CONDITIONS SUCH AS EMPHYSEMA OR BRONCHITIS. REPEATED SKIN CONTACT MAY CAUSE DERMAL IRRITATION, DRYNESS AND CRACKING.

### Section 04: FIRST AID MEASURES

INSTRUCTIONS:  
INSTRUCTIONS:..... SKIN: REMOVE CONTAMINATED CLOTHING; WASH UNDER SHOWER WITH SOAP AND WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. EYE: FLUSH IMMEDIATELY WITH GENTLY RUNNING WATER FOR A MINIMUM OF 15 MINUTES, ENSURING ALL SURFACES AND CREVICES ARE FLUSHED BY LIFTING LOWER AND UPPER LIDS. OBTAIN MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR, RESTORE OR ASSIST BREATHING IF NECESSARY, OBTAIN MEDICAL ATTENTION IMMEDIATELY. INGESTION: SWALLOWING METHANOL IS LIFE THREATENING. ONSET OF SYMPTOMS MAY BE DELAYED FOR 18 TO 24 HOURS AFTER INGESTION. IF CONSCIOUS AND MEDICAL AID IS NOT IMMEDIATELY AVAILABLE, DO NOT INDUCE VOMITING. TRANSPORT TO MEDICAL ATTENTION.

### Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... SEE FLASH POINT.  
IF YES, UNDER WHICH CONDITIONS?..... IN THE PRESENCE OF AN IGNITION SOURCE.  
EXTINGUISHING MEDIA..... CARBON DIOXIDE. DRY CHEMICAL. WATER SPRAY.  
SPECIAL PROCEDURES..... STAY UPWIND. ISOLATE AND RESTRICT AREA ACCESS. FIRE FIGHTERS MUST WEAR FULL FACE, POSITIVE PRESSURE, SELF-CONTAINED BREATHING

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**Section 05: FIRE FIGHTING MEASURES**

SPECIAL PROCEDURES..... APPARATUS OR AIRLINE AND APPROPRIATE PROTECTIVE CLOTHING. USE FINE WATER SPRAY OR FOG TO CONTROL FIRE SPREAD AND COOL ADJACENT STRUCTURES OR CONTAINERS. CONTAIN FIRE CONTROL WATER FOR LATER DISPOSAL. DO NOT WALK THROUGH SPILLED PRODUCT. CONCENTRATIONS OF GREATER THAN 25% METHANOL IN WATER CAN BE IGNITED. METHANOL BURNS WITH A CLEAN CLEAR FLAME THAT IS ALMOST INVISIBLE IN DAYLIGHT.

FLASH POINT (C), METHOD..... 12.

AUTO IGNITION TEMPERATURE..... N.AV.

UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AV.

LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.

EXPLOSION DATA..... N.AV.

EXPLOSIVE POWER..... N.AV.

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

SENSITIVITY TO STATIC DISCHARGE..... YES.

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

UNUSUAL FIRE AND EXPLOSION ..... METHANOL BURNS WITH A CLEAN CLEAR FLAME THAT IS ALMOST INVISIBLE IN DAYLIGHT. VAPOURS MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

HAZARDS

HAZARDOUS COMBUSTION PRODUCTS.. TOXIC GASES AND VAPOURS; OXIDES OF CARBON AND FORMALDEHYDE.

**Section 06: ACCIDENTAL RELEASE MEASURES**

SPILL/LEAK..... FLAMMABLE LIQUID. ELIMINATE ALL IGNITION SOURCES. STOP LEAK AND USE NON-COMBUSTIBLE ABSORBENT MATERIALS. STOP OR REDUCE LEAK IF SAFE TO DO SO. RESTRICT ACCESS TO UNPROTECTED PERSONNEL. WEAR PROTECTING EQUIPMENT. IF NECESSARY, CONTAIN SPILL BY DIKING. FLUOROCARBON ALCOHOL RESISTANT FOAMS MAY BE APPLIED TO SPILL TO DIMINISH VAPOUR AND FIRE HAZARD. COLLECT LIQUID WITH EXPLOSION PROOF PUMPS. COLLECT WITH A NON-COMBUSTIBLE ABSORBENT MATERIAL. (CLAY OR SAND). DO NOT WALK THROUGH SPILLED PRODUCT AS IT MAY BE ON FIRE AND NOT VISIBLE.

**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND ..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. AVOID BREATHING EQUIPMENT VAPOURS. AVOID EYE AND SKIN CONTACT. DO NOT INGEST. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. NO SMOKING OR OPEN FLAME IN STORAGE, USE OR HANDLING. USE EXPLOSION PROOF ELECTRICAL EQUIPMENT. ENSURE PROPER ELECTRICAL GROUNDING PROCEDURES ARE IN PLACE. EQUIPMENT MUST BE GROUNDED. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. EMPTY CONTAINERS ARE HAZARDOUS, MAY CONTAIN FLAMMABLE/EXPLOSIVE DUSTS, LIQUID RESIDUE OR VAPOURS. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

SHIPPING INFORMATION..... ALL SHIPMENTS OF METHANOL MUST BE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELLED TO CONFORM WITH REGULATIONS SET BY TRANSPORT CANADA (TDG) AND/OR U.S. DEPARTMENT OF TRANSPORT (DOT).

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE..... CHEMICAL IMPERVIOUS GLOVES. CHECK WITH GLOVE MANUFACTURER.

RESPIRATORY/TYPE..... NIOSH APPROVED SUPPLIED AIR RESPIRATOR WHEN AIRBORNE CONCENTRATIONS EXCEED EXPOSURE LIMITS.

EYE/TYPE..... FACE SHIELD AND CHEMICAL SPLASH GOGGLES WHEN TRANSFERRING IS TAKING PLACE.

FOOTWEAR/TYPE..... CHEMICAL RESISTANT.

CLOTHING/TYPE..... WEAR CHEMICAL RESISTANT PANTS AND JACKETS, PREFERABLY BUTYL OR NITRILE RUBBER. CHECK WITH MANUFACTURER.

OTHER/TYPE..... EYEWASH AND SAFETY SHOWER SHOULD BE READILY AVAILABLE.

ENGINEERING CONTROLS..... IN CONFINED AREAS, LOCAL AND GENERAL VENTILATION SHOULD BE PROVIDED TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW PERMISSIBLE EXPOSURE LIMITS. VENTILATION SYSTEMS MUST BE DESIGNED ACCORDING TO APPROVED STANDARDS.

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... LIQUID.

ODOUR..... CHARACTERISTIC.

ODOUR THRESHOLD..... N.AV.

VAPOUR PRESSURE (MMHG)..... N.AV.

VAPOUR DENSITY (AIR=1)..... N.AV.

EVAPORATION RATE..... N.AV.

BOILING POINT..... 100 C.

PH..... 7-8. (2% CONCENTRATION).

SPECIFIC GRAVITY (WATER=1)..... ~0.97.

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**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PERCENT VOLATILE..... ~100 .  
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.

**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:  
 YES..... PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.  
 NO, WHICH CONDITIONS?  
 COMPATABILITY WITH OTHER  
 SUBSTANCES:  
 YES  
 NO, WHICH ONES?..... STRONG OXIDIZERS, STRONG ACIDS, STRONG BASES. METHANOL MAY BE  
 CORROSIVE TO LEAD AND ALUMINUM.  
 REACTIVITY CONDITIONS?..... PRESENCE OF INCOMPATIBLE MATERIALS AND IGNITION SOURCES.  
 HAZARDOUS PRODUCTS OF ..... FORMALDEHYDE, CARBON DIOXIDE AND CARBON MONOXIDE.  
 DECOMPOSITION  
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

**Section 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL..... METHANOL: ACGIH TLV-TWA 200 PPM, STEL 250 PPM - SKIN NOTATION; OSHA PEL  
 200 PPM, STEL 250 PPM - SKIN NOTATION.  
 LC 50 OF MATERIAL, SPECIES & ROUTE.. METHANOL: 64,000 PPM (INHALATION RAT).  
 LD 50 OF MATERIAL, SPECIES & ROUTE.. METHANOL: 5.6-13.0 G/KG (ORAL-RAT); 20 ML/KG (DERMAL-RABBIT).  
 CARCINOGENICITY OF MATERIAL..... NOT LISTED WITH IARC, NTP, ACGIH OR OSHA AS A CARCINOGEN.  
 REPRODUCTIVE EFFECTS..... METHANOL WAS REPORTED TO CAUSE BIRTH DEFECTS IN RATS EXPOSED TO  
 20,000 PPM.  
 TERATOGENICITY..... NO.  
 MUTAGENICITY..... NO.  
 IRRITANCY OF MATERIAL..... SEE SECTION 03.  
 SENSITIZING CAPABILITY OF MATERIAL. NO.  
 SYNERGISTIC MATERIALS..... N.AV.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ENVIRONMENTAL DATA..... MAY BE TOXIC TO AQUATIC LIFE.

**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... DISPOSE OF IN ACCORDANCE TO ALL LOCAL, PROVINCIAL AND FEDERAL  
 REGULATIONS.

**Section 14: TRANSPORT INFORMATION**

UN NUMBER..... 1993.  
 TDG CLASSIFICATION..... 3.  
 PACKING GROUP..... II.  
 SPECIAL SHIPPING INSTRUCTIONS..... N.AP.

**Section 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... B2, D1A.  
 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