



Canada Colors and Chemicals Limited

 CANADA COLORS & CHEMICALS LTD
 80 SCARSDALE ROAD
 DON MILLS, ONTARIO, CANADA M3B 2R7
 (416)-449-7750
PRODUCT: PARATENE HFA**CODE: 242412****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..... Nov23/05
 PRODUCT NAME..... PARATENE HFA
 PRODUCT CODE..... 242412
 CHEMICAL FAMILY..... 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
ISOPARAFFINIC HYDROCARBON	60-100	SEE SECTION 11	64742-48-9	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
 SKIN CONTACT..... DIRECT CONTACT OR EXPOSURE TO VAPOURS MAY CAUSE IRRITATION WITH DISCOMFORT, RASH AND REDNESS.

SKIN ABSORPTION..... N.AV.

EYE CONTACT..... DIRECT CONTACT OR EXPOSURE TO VAPOURS MAY CAUSE IRRITATION WITH DISCOMFORT, TEARING OR BLURRED VISION.

INHALATION..... BREATHING FUMES FROM OVERHEATING FLUOROPOLYMERS MAY CAUSE LUNG IRRITATION AND "POLYMER FUME FEVER", A TEMPORARY FLU-LIKE ILLNESS.

INGESTION..... SWALLOWING LARGE QUANTITIES OF THIS PRODUCT MAY BE HARMFUL OR FATAL.

EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.
 EFFECTS OF CHRONIC EXPOSURE..... REFER TO ROUTE OF ENTRY.

Section 04: FIRST AID MEASURES

INSTRUCTIONS:..... INHALATION: REMOVE FROM AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT. RINSE EYES WITH PLENTY OF WATER. REMOVE CONTACT LENSES AND IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, INCLUDING UNDER EYELIDS. HOLD EYELIDS APART TO ENSURE COMPLETE FLUSHING. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. WASH AFFECTED AREAS WITH PLENTY OF WATER AND SOAP FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS. INGESTION: IF CONSCIOUS, GIVE 2 TO 4 GLASSES OF WATER TO DRINK, BUT DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET MEDICAL ATTENTION TO DETERMINE IF VOMITING OR EVACUATION OF STOMACH IS NECESSARY. DO NOT GIVE ANYTHING BY MOUTH TO A CONVULSING OR UNCONSCIOUS PERSON.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... SEE FLASH POINT.
 IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

EXTINGUISHING MEDIA..... CARBON DIOXIDE, DRY CHEMICAL, WATER FOG.

SPECIAL PROCEDURES..... FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT. WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. DO NOT USE BREATHING APPARATUS WITH ACTIVATED CARCOAL ABSORPTION. ISOLATE DANGER AREA. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. COOL ANY EXPOSED CONTAINERS WITH WATER.

FLASH POINT (C), METHOD..... 40 C(104 F) TCC.
 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.

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Section 05: FIRE FIGHTING MEASURES

RATE OF BURNING..... N.A.V.
 SENSITIVITY TO STATIC DISCHARGE..... MATERIAL CAN ACCUMULATE STATIC CHARGES THAT CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE.
 SENSITIVITY TO IMPACT..... N.A.V.
 HAZARDOUS COMBUSTION PRODUCTS.. SEE HAZARDOUS DECOMPOSITION PRODUCTS.
 NOTE..... IF INVOLVED IN A FIRE, THE PRODUCT CAN RELEASE SMALL QUANTITIES OF TOXIC HYDROGEN FLUORIDE AND CARBONYL FLUORIDE FUMES. TOXIC PRODUCTS GENERATED BY HEAT DEGRADATION MAY CAUSE RESPIRATORY INJURIES OR EVEN DEATH.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... SPILL AREA WILL BE SLIPPERY. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ELIMINATE ALL IGNITION SOURCES. ABSORB SPILL WITH SAND OR NON-COMBUSTIBLE DRY MATERIAL AND COLLECT IN APPROPRIATE CONTAINER FOR DISPOSAL. DIKE IF NECESSARY. PREVENT ENTRY INTO WATERWAYS OR SEWERS. GROUND ALL EQUIPMENT.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT INHALE VAPOUR OR MIST. DO NOT INGEST. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE ADEQUATE VENTILATION. COMBUSTIBLE. KEEP AWAY FROM ALL SOURCES OF IGNITION. ALL EQUIPMENT SHOULD BE GROUNDED. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. VAPOURS MAY ACCUMULATE AND TRAVEL TO DISTANT IGNITION SOURCES AND FLASHBACK. KEEP CONTAINER CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
 STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORAGE TEMPERATURE RANGE: 5-30 C. IF MATERIAL FREEZES, GENTLY THAW PRIOR TO USE, MILD AGITATION MAY BE REQUIRED.
 NOTE..... DO NOT USE MATERIAL ABOVE 200C. USE THIS MATERIAL ABOVE SUCH TEMPERATURES MAY CREATE TOXIC DEGRADATION AND THE GENERATION OF HYDROGEN FLUORIDE, CARBONYL FLUORIDE, CARBON MONOXIDE, AND CARBON DIOXIDE. OVER 470 C, PERFLUOROISOBUTYLENE MAY BE GENERATED BY HEAT DEGRADATION. IN OPERATIONS WHERE THE FLUOROPOLYMER IS EXPOSED TO ELEVATED TEMPERATURES, USE LOCAL VENTILATION TO REMOVE ALL POTENTIAL DECOMPOSED SUBSTANCES.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... CHEMICAL IMPERVIOUS GLOVES. CONSULT GLOVE MANUFACTURER TO DETERMINE APPROPRIATE TYPE OF GLOVE FOR GIVEN APPLICATION.
 RESPIRATORY/TYPE..... A NIOSH/MSHA APPROVED RESPIRATOR SHOULD BE USED IF A MIST OR VAPOR IS GENERATED.
 EYE/TYPE..... CHEMICAL GOGGLES AND/OR FACE SHIELD.
 FOOTWEAR/TYPE..... CHEMICAL RESISTANT.
 CLOTHING/TYPE..... IMPERVIOUS CLOTHING.
 OTHER/TYPE..... AN EMERGENCY EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED IN IMMEDIATE WORK AREA.
 ENGINEERING CONTROLS..... LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED. CONCENTRATIONS IN AIR SHOULD BE MAINTAINED BELOW THE RECOMMENDED THRESHOLD LIMIT VALUE IF UNPROTECTED PERSONNEL ARE INVOLVED. EXPLOSION PROOF.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.
 ODOUR..... CHARACTERISTIC.
 ODOUR THRESHOLD..... N.A.V.
 VAPOUR PRESSURE (MMHG)..... N.A.V.
 VAPOUR DENSITY (AIR=1)..... N.A.V.
 EVAPORATION RATE..... N.A.V.
 BOILING POINT..... 170 (C).
 PH..... N.A.V.
 SPECIFIC GRAVITY (WATER=1)..... ~0.75.
 SOLUBILITY IN WATER (% W/W)..... INSOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.A.V.

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Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
 YES..... MATERIAL IS STABLE UNDER NORMAL CONDITIONS.
 NO, WHICH CONDITIONS?
 COMPATABILITY WITH OTHER
 SUBSTANCES:
 YES
 NO, WHICH ONES?..... BASES. STRONG OXIDIZERS.
 REACTIVITY CONDITIONS?..... AVOID HEAT, FLAME.
 HAZARDOUS PRODUCTS OF MAY LIBERATE HYDROGEN FLUORIDE, CARBONYL FLUORIDE, CARBON
 DECOMPOSITION MONOXIDE IN THE PRESENCE OF LIMITED OXYGEN IN A FIRE SITUATION.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... ISOPARAFFINIC HYDROCARBON: 500 PPM TWA, OSHA PEL; 100 PPM TWA, ACGIH
 TLV.
 LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 CARCINOGENICITY OF MATERIAL..... NONE KNOWN.
 REPRODUCTIVE EFFECTS..... N.AV.
 IRRITANCY OF MATERIAL..... SEE SECTION 03.
 SENSITIZING CAPABILITY OF MATERIAL. SEE SECTION 03.
 SYNERGISTIC MATERIALS..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL TOXICITY..... MAY BE HARMFUL TO AQUATIC LIFE. PREVENT ENTRY INTO POTABLE WATER
 INTAKES AND WATERWAYS.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION..... 3.
 UN NUMBER..... 1268.
 PACKING GROUP..... III.
 SPECIAL SHIPPING INSTRUCTIONS..... NOT REGULATED IF <450 L.

Section 15: REGULATORY INFORMATION

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.
 WHMIS CLASSIFICATION..... B3, D2B.

Section 16: OTHER INFORMATION

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