

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

PRODUCT : DOW LDPE 993I

CODE: P394288

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER......DOW CHEMICAL CANADA INC.

MODELAND ROAD,

P.O. BOX 1012

SARNIA, ONTARIO ; N7T 7K7

PREPARED BY......ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT

PREPARATION DATE.....JUN 30/1997 PRODUCT NAME......DOW LDPE 993I

MATERIAL USE.......REFER TO TECHNICAL LITERATURE

EMERGENCY PHONE NO.....(416)-444-2112

SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES

NONE

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

SKIN CONTACT......ESSENTIALLY NON-IRRITATING TO SKIN. POSSIBLE MECHANICAL

IRRITATION. MOLTEN MATERIAL CAUSES BURNS.

SKIN ABSORPTION.....SKIN ABSORPTION IS UNLIKELY DUE TO PHYSICAL PROPERTIES.

EYE CONTACT......SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO

MECHANICAL ACTION.

INHALATION......DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. AT

ROOM TEMPERATURE, EXPOSURES TO VAPOURS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES; HIGH TEMPERATURES MAY GENERATE VAPOUR

LEVELS SUFFICIENT TO CAUSE IRRITATION AND OTHER EFFECTS. INGESTION......SINGLE DOSE ORAL TOXICITY IS LOW. NO HAZARDS ANTICIPATED

FROM INGESTION INCIDENTAL TO INDUSTRIAL EXPOSURE.

OTHER HEALTH EFFECTS:.....ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND ARE NOT

EXPECTED TO BE RELEASED UNDER NORMAL PROCESSING CONDITIONS.

EFFECTS OF ACUTE EXPOSURE.....SEE ABOVE

EFFECTS OF CHRONIC EXPOSURE.....NO RELEVANT INFORMATION FOUND.

SECTION 04: FIRST AID MEASURES

INSTRUCTIONS:......INHALATION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF

EXPOSURE. SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING. FLUSH EYES WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE

SURFACE OF THE EYE AND LIDS WITH WATER.

SECTION 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS......NOT REGULATED

FLAMMABILITY.....SEE FLASH POINT

IF YES, UNDER WHICH

CONDITIONS?

EXTINGUISHING MEDIA......WATER FOG, CO2, DRY CHEMICAL.

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SECTION 05: FIRE FIGHTING MEASURES

SPECIAL PROCEDURES.....KEEP PEOPLE AWAY. ISOLATE FIRE AREA. COOL SURROUNDINGS WITH

WATER TO LOCALIZE FIRE ZONE. HAND HELD CARBON DIOXIDE OR DRY CHEMICAL EXTINGUISHERS MAY BE USED FOR SMALL FIRES. SOAK THOROUGHLY WITH WATER TO COOL AND PREVENT RE-IGNITION. WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. WEAR PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, PANTS, BOOTS, AND GLOVES.). TOXIC

GASES LIBERATED UNDER FIRE CONDITIONS.

FLASH POINT (C), METHOD.....NONE

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

UPPER FLAMMABLE LIMIT (% BY.....N.AP.

VOL.)

LOWER FLAMMABLE LIMIT (% BY.....N.AP.

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......DENSE BLACK SMOKE EMITTED WHEN BURNED WITHOUT SUFFICIENT

HAZARDS

OXYGEN. MECHANICAL HANDLING CAN CAUSE FORMATION OF DUSTS. DO NOT ALLOW DUST TO ACCUMULATE. UNDER FIRE CONDITIONS POLYMERS DECOMPOSE. THE SMOKE MAY CONTAIN POLYMER FRAGMENTS OF VARYING COMPOSITION IN ADDITION TO UNIDENTIFIED TOXIC

AND/OR IRRITATING COMPOUNDS.

HAZARDOUS COMBUSTION PRODUCTS....UNDER FIRE CONDITIONS POLYMERS DECOMPOSE. THE SMOKE MAY

CONTAIN POLYMER FRAGMENTS OF VARYING COMPOSITIONS IN ADDITION TO UNIDENTIFIED TOXIC AND/OR IRRITATING COMPOUNDS. HAZARDOUS COMBUSTION BY-PRODUCTS MAY INCLUDE AND ARE NOT

LIMITED TO CARBON MONOXIDE, CARBON DIOXIDE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL.....ONLY TRAINED AND PROPERLY PROTECTED PERSONNEL SHOULD BE

INVOLVED IN SPILL CLEANUP OPERATIONS. MAY PRESENT A SLIPPING HAZARD. COLLECT AND CONTAIN IN SUITABLE DISPOSAL

SLIPPING HAZARD. COLLECT AND CONTAIN IN SUITABLE DISPOSA

CONTAINERS.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND......AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID

EOUIPMENT

BREATHING DUST OR MIST. KEEP CONTAINER CLOSED WHEN NOT IN USE. MECHANICAL HANDLING EQUIPMENT CAN CAUSE FORMATION OF DUSTS. DUST LAYERS SHOULD NOT BE PERMITTED TO ACCUMULATE IN ORDER TO AVOID ANY POTENTIAL FOR DUST EXPLOSION HAZARDS.

MAINTAIN A GOOD PERSONAL HYGIENE.

STORAGE NEEDS......STORE AWAY FROM ACIDS. STORE IN A COOL DRY PLACE. DO NOT

STORE IN UNDERGROUND TANKS. KEEP CONTAINER CLOSED WHEN NOT

IN USE.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE......RECOMMENDED.

RESPIRATORY/TYPE......IN DUSTY ATMOSPHERE, USE AN APPROVED DUST RESPIRATOR. USE

NIOSH/MSHA APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE IS

EXCESSIVE.

EYE/TYPE......SAFETY GLASSES. IF THERE IS A POTENTIAL FOR EXPOSURE TO

PARTICLES WHICH COULD CAUSE MECHANICAL INJURY TO THE EYE,

WEAR CHEMICAL GOGGLES.

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SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

FOOTWEAR/TYPE.....RUBBER SAFETY BOOTS

CLOTHING/TYPE......WEAR IMPERVIOUS PROTECTIVE CLOTHING.

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

ENGINEERING CONTROLS.......CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE

GUIDELINE. GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS. IF HANDLING AT ELEVATED TEMPERATURES

WITHOUT SUFFICIENT VENTILATION, USE AN APPROVED

AIR-PURIFYING RESPIRATOR. IN DUSTY ATMOSPHERES, USE AN

APPROVED DUST RESPIRATOR.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:

YES

NO, WHICH CONDITIONS?.....TEMPERATURES OVER 300 (C) WILL RELEASE NOXIOUS AND COMBUSTIBLE GASES.

COMPATABILITY WITH OTHER

SUBSTANCES:

YES

NO, WHICH ONES?.....OXIDIZING AGENTS

HAZARDOUS PRODUCTS OF......PROCESSING MAY RELEASE FUMES WHICH INCLUDE POLYMER

DECOMPOSITION

FRAGMENTS AND OTHER DECOMPOSITION PRODUCTS. DECOMPOSITION PRODUCTS DEPEND ON TEMPERATURE, OTHER MATERIALS PRESENT AND AIR SUPPLY. FUMES CAN BE IRRITATING. AT TEMPERATURES EXCEEDING MELT TEMPERATURES, POLYMER FRAGMENTS CAN OCCUR. DURING THERMAL PROCESSING THIS MATERIAL CAN DEGRADE TO PRODUCE TRACE HYDROCARBONS, ALDEHYDES, ORGANIC ACIDS, AND ALCOHOLS IN LIMITED QUANTITIES. TOXIC GASES ARE RELEASED. COMPLETE COMBUSTION RESULTS IN CARBON DIOXIDE AND WATER.

HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL......SEE SECTION 02. ALTHOUGH SOME OF THE ADDITIVES USED IN THIS PRODUCT MAY HAVE EXPOSURE GUIDELINES, THESE ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND NO EXPOSURE WOULD BE

EXPECTED UNDER NORMAL HANDLING CONDITIONS.

LC 50 OF MATERIAL, SPECIES &....SEE SECTION 02

ROUTE

LD 50 OF MATERIAL, SPECIES &.....SINGLE DOSE HAS NOT BEEN DETERMINED. SINGLE DOSE ORAL

ROUTE TOXICITY IS BELIEVED TO BE VERY LOW.

CARCINOGENICITY OF MATERIAL....NONE

REPRODUCTIVE EFFECTS.....N.AV.

IRRITANCY OF MATERIAL.....SEE SECTION 03

SENSITIZING CAPABILITY OF.....N.AV.

MATERIAL

SYNERGISTIC MATERIALS.....N.AV.

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SECTION 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL TOXICITY.....THIS WATER INSOLUBLE POLYMERIC SOLID IS EXPECTED TO BE

INFORMATION

INERT IN ENVIRONMENT. SURFACE PHOTODEGRADATION IS EXPECTED WITH EXPOSURE TO SUNLIGHT. NO APPRECIABLE BIODEGRADATION IS EXPECTED. NOT EXPECTED TO BE ACUTELY TOXIC, BUT PELLETS, IF INGESTED BY WATERFOWL OR AQUATIC LIFE, MAY MECHANICALLY

CAUSE ADVERSE EFFECTS.

ENVIRONMENTAL FATE:......NO BIOCONCENTRATION IS EXPECTED BECAUSE OF THE RELATIVELY

HIGH MOLECULAR WEIGHT (MW GREATER THAN 1000). IN THE TERRESTRIAL ENVIRONMENT, MATERIAL IS EXPECTED TO REMAIN IN THE SOIL. IN THE AQUATIC ENVIRONMENT, MATERIAL IS EXPECTED

TO FLOAT.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL......DU NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY

OF WATER. DISPOSE OF IN ACCORDANCE TO ALL GOVERNMENT

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