



03212000

MATERIAL SAFETY DATA SHEET : 00005573

PAGE:1



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

PRODUCT : BUTVAR B-98

CODE: 259098

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER.....SOLUTIA CANADA INC.
 2233 ARGENTIA RD.
 MISSISSAUGA, ONTARIO
 CANADA ; L5N 2X7
 PREPARED BY.....ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT
 PREPARATION DATE.....MAR 21/2000
 PRODUCT NAME.....BUTVAR B-98
 PRODUCT CODE.....259098
 CHEMICAL FORMULA
 MOLECULAR WEIGHT.....MIXTURE
 CHEMICAL FAMILY.....POLYVINYL BUTYRAL RESIN
 MATERIAL USE.....ADHESIVE AND COATING FORMULATIONS

SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
POLYVINYL BUTYRAL-POLYVINYL ALCOHOL-POLYVINYL ACETATE TERPOLYMER % :~96% CAS #:27360-07-2	10MG/M3	N.AV.	N.AV.
DIETHYL BUTYRAL % :<OR=2.0 CAS #:26254-89-7	N.AV. N.AV.	N.AV.	N.AV.
BUTYRALDEHYDE % :<OR=0.2 CAS #:123-72-8	N.AV. N.AV.	N.AV.	N.AV.
ETHANOL % :<OR=0.1 CAS #:64-17-5	1000 PPM/TWA (ACGIH)	7060 MG/KG (ORL-RAT) 20.0 G/KG (DRM-RBT)	20000 PPM/10H (IHL-RAT)
ETHYL ACETATE % :<OR=0.1 CAS #:141-78-6	400 PPM TWA (ACGIH 1993-94)	5620 MG/KG (ORL-RAT) >20 ML/KG (DRM-RBT)	16,000 PPM /6H (RAT)

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
 SKIN CONTACT.....NO MORE THAN SLIGHTLY TOXIC OR IRRITATING BASED ON TOXICITY STUDIES.
 SKIN ABSORPTION.....NO ADVERSE HEALTH EFFECTS.
 EYE CONTACT.....MAY CAUSE PAIN, REDNESS AND TEARING BASED ON TOXICITY STUDIES
 INHALATION.....NO APPLICABLE INFORMATION WAS FOUND.



03212000

MATERIAL SAFETY DATA SHEET : 00005573

PAGE:2

PRODUCT : BUTVAR B-98

CODE: 259098

SECTION 03: HAZARDS IDENTIFICATION

INGESTION.....NO MORE THAN SLIGHTLY TOXIC BASED ON TOXICITY STUDIES. NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO DEVELOP IF ONLY SMALL AMOUNTS (LESS THAN MOUTHFUL) ARE SWALLOWED.
EFFECTS OF ACUTE EXPOSURE.....NO ADVERSE EFFECTS ANTICIPATED FROM AVAILABLE INFORMATION.
EFFECTS OF CHRONIC EXPOSURE.....NO CHRONIC OR LONG TERM HEALTH EFFECTS KNOWN.

SECTION 04: FIRST AID MEASURES

INSTRUCTIONS:.....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. OBTAIN MEDICAL ATTENTION, IF IRRITATION PERSISTS. IF ON SKIN, IMMEDIATE FIRST AID IS NOT LIKELY TO BE REQUIRED. HOWEVER, THIS MATERIAL CAN BE REMOVED WITH WATER. WASH CLOTHING BEFORE REUSE. IF INHALED, IMMEDIATE FIRST AID IS NOT LIKELY TO BE REQUIRED. HOWEVER, IF SYMPTOMS OCCUR, REMOVE TO FRESH AIR. IF SWALLOWED, IMMEDIATE FIRST AID IS NOT LIKELY TO BE REQUIRED. A PHYSICIAN OR POISON CONTROL CENTER CAN BE CONTACTED FOR ADVICE.

SECTION 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS.....NOT APPLICABLE
FLAMMABILITY.....SEE FLASH POINT
IF YES, UNDER WHICH.....FLAMMABLE LIMITS:0.020 OZ/FT3 DUST IN AIR (14.5% OXYGEN) CONDITIONS?
EXTINGUISHING MEDIA.....WATER SPRAY. CLASS A EXTINGUISHING AGENTS
SPECIAL PROCEDURES.....WARNING: COMBUSTIBLE DUST. FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR FULL FIRE FIGHTING TURN OUT GEAR AND SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND NIOSH APPROVED OR EQUIVALENT).
FLASH POINT (C), METHOD.....N.AP.
AUTO IGNITION TEMPERATURE.....390 (C). DUST CLOUD:
UPPER FLAMMABLE LIMIT (% BY.....N.AV.
VOL.)
LOWER FLAMMABLE LIMIT (% BY.....N.AV.
VOL.)
EXPLOSION DATA
EXPLOSIVE POWER.....THIS MATERIAL, AS NORMALLY PACKAGED AND HANDLED, CAN CONTAIN SUFFICIENT FINES TO PRESENT A DUST EXPLOSION POTENTIAL IF A SUFFICIENT QUANTITY OF THE MATERIAL IS DISPERSED IN AIR.
RATE OF BURNING
SENSITIVITY TO STATIC.....NONE KNOWN
DISCHARGE
SENSITIVITY TO IMPACT.....NONE KNOWN
HAZARDOUS COMBUSTION PRODUCTS...BUTYRALDEHYDE, BUTYRIC ACID, ACROLEIN, CROTON-ALDEHYDE IN TRACE AMOUNT, AND CARBON MONOXIDE



03212000

MATERIAL SAFETY DATA SHEET : 00005573

PAGE:3

PRODUCT : BUTVAR B-98

CODE: 259098

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL.....VACUUM OR SWEEP UP. PLACE IN A CLOSED CHEMICAL WASTE CONTAINERS. USE VACUUM EQUIPMENT DESIGNED SPECIFICALLY FOR HANDLING COMBUSTIBLE DUSTS. DISPOSE OF ACCORDING TO REGULATORY AGENCIES PROCEDURES.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND.....AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING. EQUIPMENT KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. AVOID DUST CLOUD FORMATION. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE.
STORAGE NEEDS.....AVOID HUMIDITY. AVOID HEAT.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE.....ALTHOUGH THIS MATERIAL DOES NOT PRESENT A SIGNIFICANT SKIN CONCERN, SKIN CONTAMINATION SHOULD BE MINIMIZED AS GOOD INDUSTRIAL PRACTICE.
RESPIRATORY/TYPE.....USE NIOSH/MSHA APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE IS EXCESSIVE. CONSULT RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE TYPE OF EQUIPMENT FOR GIVEN APPLICATION.
EYE/TYPE.....CHEMICAL SAFETY GOGGLES
FOOTWEAR/TYPE.....DEPENDS ON OPERATION.
CLOTHING/TYPE.....WEAR ADEQUATE PROTECTIVE CLOTHES.
OTHER/TYPE.....EYE BATH AND SAFETY SHOWER.
ENGINEERING CONTROLS.....ADEQUATE VENTILATION.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....WHITE GRANULAR
ODOUR.....N.AV.
ODOUR THRESHOLD.....N.AV.
VAPOUR PRESSURE (MMHG).....N.AV.
VAPOUR DENSITY (AIR=1).....N.AV.
BY VOLUME
BY WEIGHT
MELTING POINT (C).....140-200
BOILING POINT.....N.AV.
PH.....N.AV.
BULK DENSITY.....22-.25G/CC
SPECIFIC GRAVITY (WATER=1).....1.0
SOLUBILITY IN WATER (% W/W).....N.AV.
COEFFICIENT OF WATER/OIL DIST...N.AV.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
YES.....STABLE AT NORMAL TEMPERATURES AND CONDITION OF STORAGE



03212000

MATERIAL SAFETY DATA SHEET : 00005573

PAGE:4

PRODUCT : BUTVAR B-98

CODE: 259098

SECTION 10: STABILITY AND REACTIVITY

NO, WHICH CONDITIONS?
COMPATABILITY WITH OTHER
SUBSTANCES:
YES
NO, WHICH ONES?.....STRONG OXIDIZERS
REACTIVITY CONDITIONS?.....N.AV.
HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR
HAZARDOUS PRODUCTS OF.....SEE HAZARDOUS COMBUSTION PRODUCTS
DECOMPOSITION

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL
LC 50 OF MATERIAL, SPECIES &.....N.AV.
ROUTE
LD 50 OF MATERIAL, SPECIES &.....ORAL-RAT:>10,000MG/KG DERMAL-RABBIT:>7,940MG/KG
ROUTE
CARCINOGENICITY OF MATERIAL.....NONE KNOWN
REPRODUCTIVE EFFECTS.....NONE KNOWN
IRRITANCY OF MATERIAL.....SKIN-RABBIT, 24HR EXP, DRAIZE AVERAGE, 0.4/8.0, EU,
ERYTHEMA - 0.4, EDEMA - 0.0. EYE-RABBIT:24HR EXP, DRAIZE
AVERAGE, 27.6/110, EU: CORNEAL OPACITY - 0.7, IRIS - 1.4,
ERYTHEMA - 1.4, CHEMOSIS - 1.1
SENSITIZING CAPABILITY OF.....NONE KNOWN
MATERIAL
SYNERGISTIC MATERIALS.....NONE KNOWN

SECTION 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL STATEMENT:.....NO DATA AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....DISPOSE OF IN ACCORDANCE TO ALL GOVERNMENT REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION.....NOT REGULATED
SPECIAL SHIPPING INSTRUCTIONS....N.AP.

SECTION 15: REGULATORY INFORMATION

CPR COMPLIANCE.....THIS IS NOT A REGULATED PRODUCT. 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.



03212000

MATERIAL SAFETY DATA SHEET : 00005573

PAGE:5

PRODUCT : BUTVAR B-98

CODE: 259098

SECTION 16: OTHER INFORMATION

N.AP.=NOT APPLICABLE

N.AV.=NOT AVAILABLE