



CANADA COLORS AND CHEMICALS LTD
80 SCARSDALE ROAD
DON MILLS, ONTARIO, CANADA M3B 2R7

PRODUCT: YELLOW MB 20-1655 "!"

CODE: M271655

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... CCC PLASTICS
PURDY ROAD, P.O. BOX 10
COLBORNE, ONTARIO
CANADA
K0K 1S0
1-800-465-6917
PREPARED BY..... ENVIRONMENTAL & REGULATORY AFFAIRS DEPT.
PREPARATION DATE..... Jun05/07
PRODUCT NAME..... YELLOW MB 20-1655 "!"
PRODUCT CODE..... M271655
CHEMICAL FORMULA..... COPOLYMER.
CHEMICAL FAMILY..... POLYETHYLENE.
MATERIAL USE..... PLASTICS.
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
LEAD SULPHOCHROMATE YELLOW	7-13	N.AV.	1344-37-2	N.AV.	N.AV.
TITANIUM DIOXIDE	10-30	5 MG/MG/8 HR OSHA	13463-67-7	N.AV.	N.AV.

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... ESSENTIALLY NON-IRRITATING TO SKIN. POSSIBLE MECHANICAL INJURY ONLY.
MOLTEN RESIN CAN CAUSE THERMAL BURNS.
SKIN ABSORPTION..... A SINGLE PROLONGED SKIN EXPOSURE IS NOT LIKELY TO RESULT IN
ABSORPTION OF HARMFUL AMOUNTS.
EYE CONTACT..... LOW HAZARD FOR USUAL INDUSTRIAL HANDLING. SOLID OR DUST MAY CAUSE
IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION.
INHALATION..... VAPOURS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES. SINGLE EXPOSURE TO
DUST IS NOT LIKELY TO BE HAZARDOUS.
INGESTION..... MAY CAUSE CHOKING IF SWALLOWED. HARMFUL IF SWALLOWED.
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... NONE EXPECTED. ALL ADDITIVES ARE COMPLETELY ENCAPSULATED IN THE
PRODUCT AND AS SUCH, SHOULD NOT PRESENT A HEALTH HAZARD.
ADDITIONAL INFORMATION..... OVEREXPOSURE TO LEAD AS SUCH, INCLUDES CONSTIPATION, SLEEP
DISTURBANCE, FATIGUE, HEADACHE AND LOSS OF APPETITE. IF EXCESSIVE, MAY
AFFECT BLOOD, NERVOUS (BRAIN), DIGESTIVE (STOMACH), RENAL (KIDNEYS) OR
REPRODUCTIVE SYSTEMS. APATHY, DEPRESSION, ANEMIA.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE
INSTRUCTIONS..... FLUSH EYES WITH ABUNDANT WATER. SKIN: WASH OFF IN FLOWING WATER OR
SHOWER. SKIN: IF BURNED BY CONTACT WITH MOLTEN MATERIAL, COOL AS
QUICKLY AS POSSIBLE WITH WATER AND SEE A PHYSICIAN FOR TREATMENT OF
BURN. DO NOT ATTEMPT TO PEEL POLYMER FROM SKIN. INHALATION: NO
ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF EXPOSURE. INGESTION: NO
ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF EXPOSURE INCIDENTAL TO
PROPER INDUSTRIAL HANDLING.
NOTES TO PHYSICIAN..... BURNS SHOULD BE TREATED AS THERMAL BURNS. THE PLASTIC WILL COME OFF
AS HEALING OCCURS; THEREFORE, IMMEDIATE REMOVAL FROM THE SKIN IS NOT
NECESSARY.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... NOT FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?
EXTINGUISHING MEDIA..... CARBON DIOXIDE, DRY CHEMICAL, FOAM. WATER FOG.
SPECIAL PROCEDURES..... WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED
BREATHING APPARATUS.
FLASH POINT (C), METHOD..... N.AP.
AUTO IGNITION TEMPERATURE..... N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AP.

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Section 05: FIRE FIGHTING MEASURES

LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AP.
 EXPLOSION DATA
 EXPLOSIVE POWER..... N.AV.
 RATE OF BURNING..... N.AV.
 SENSITIVITY TO STATIC DISCHARGE..... N.AV.
 SENSITIVITY TO IMPACT..... INSENSITIVE.
 UNUSUAL FIRE AND EXPLOSION DENSE BLACK SMOKE EMITTED WHEN BURNED WITHOUT SUFFICIENT OXYGEN.
 HAZARDS
 HAZARDOUS COMBUSTION PRODUCTS.. HAZARDOUS COMBUSTION BY-PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO CARBON MONOXIDE, CARBON DIOXIDE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... SWEEP UP TO PREVENT A SLIPPERY HAZARD. SWEEP, SHOVEL OR VACUUM SPILLED RESINS INTO A CONTAINER FOR REUSE OR DISPOSAL. AVOID DUSTING.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND MECHANICAL HANDLING EQUIPMENT CAN CAUSE FORMATION OF DUSTS. DUST EQUIPMENT LAYERS SHOULD NOT BE PERMITTED TO ACCUMULATE IN ORDER TO AVOID ANY POTENTIAL FOR DUST EXPLOSION HAZARDS. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
 STORAGE NEEDS..... NORMAL STORAGE CONDITIONS.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... RECOMMENDED.
 RESPIRATORY/TYPE..... NONE REQUIRED UNDER NORMAL OPERATING CONDITIONS. ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE.
 EYE/TYPE..... SAFETY GLASSES.
 FOOTWEAR/TYPE..... NO SPECIAL REQUIREMENTS.
 CLOTHING/TYPE..... NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED.
 OTHER/TYPE..... EYE BATH AND SAFETY SHOWER.
 ENGINEERING CONTROLS..... GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOCAL: IF DUST IS A PROBLEM.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... SOLID.
 ODOUR..... NO ODOUR.
 ODOUR THRESHOLD..... N.AP.
 VAPOUR PRESSURE (MMHG)..... N.AP.
 VAPOUR DENSITY (AIR=1)..... N.AP.
 EVAPORATION RATE..... N.AP.
 BOILING POINT..... N.AP.
 PH..... N.AP.
 SPECIFIC GRAVITY (WATER=1)..... N.AV.
 SOLUBILITY IN WATER (% W/W)..... INSOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
 YES..... YES.
 NO, WHICH CONDITIONS?
 COMPATABILITY WITH OTHER
 SUBSTANCES:
 YES..... YES.
 NO, WHICH ONES?
 HAZARDOUS PRODUCTS OF DECOMPOSITION PRODUCTS DEPEND ON TEMPERATURE, OTHER MATERIALS DECOMPOSITION PRESENT AND AIR SUPPLY. DURING THERMAL PROCESSING THIS MATERIAL CAN DEGRADE TO PRODUCE TRACE HYDROCARBONS, ALDEHYDES, ORGANIC ACIDS, AND ALCOHOLS IN LIMITED QUANTITIES. COMPLETE COMBUSTION RESULTS IN CARBON DIOXIDE AND WATER.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

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Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... NOT ESTABLISHED.
 LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 CARCINOGENICITY OF MATERIAL..... REFER TO ADDITIONAL COMMENTS.
 ADDITIONAL COMMENTS:..... CONTAINS TRACES OF ANTIMONY TRIOXIDE . CONTAINS TRACES OF CRYSTALLINE SILICA. (ALL <0.1%). ANTIMONY TRIOXIDE IS REPORTED AS CAUSING CANCER IN LABORATORY ANIMALS. CRYSTALLINE SILICA HAS BEEN EVALUATED BY IARC AND IARC HAS CONCLUDED THAT THERE IS SUFFICIENT EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF INHALED CRYSTALLINE SILICA IN THE FORM OF QUARTZ FROM OCCUPATIONAL SOURCES. TITANIUM DIOXIDE HAS BEEN CLASSIFIED BY IARC AS AN IARC GROUP 2B CARCINOGEN "POSSIBLY CARCINOGEN TO HUMANS" (THROUGH INHALATION). THIS CLASSIFICATION IS BASED UPON ANIMAL INHALATION STUDIES. . LEAD IS CONSIDERED ANIMAL CARCINOGEN AND SUSPECTED HUMAN CARCINOGEN. CHROMIUM AND CERTAIN CHROMIUM COMPOUNDS ARE CURRENTLY CLASSIFIED BY IARC AND NTP AS KNOWN CARCINOGENS BUT IT IS STIPULATED THAT THE COMPOUNDS(S) RESPONSIBLE FOR THE CARCINOGENIC EFFECT IN HUMANS CANNOT BE SPECIFIED. (GROUP 2B). ACGIH CURRENTLY LISTS CHROMATES OF LEAD AS SUBSTANCES SUSPECT OF CARCINOGENIC POTENTIAL FOR MAN (SEE APPENDIX A2 OF ACGIH TLV BOOKLET). EPA'S HEALTH ASSESSMENT DOCUMENT FOR CHROMIUM STATES THAT ANIMAL CANCER BIOASSAY STUDIES SUGGEST THAT HEXAVALENT CHROMIUM COMPOUNDS (PARTICULARLY SOLUBLE AND SPARINGLY SOLUBLE COMPOUNDS) ARE PROBABLY THE ETIOLOGICAL AGENT IN CHROMIUM RELATED HUMAN CANCER. DATA SUPPORTING THIS POSITION EXISTS IN BOTH RATS AND HUMANS. RAT BRONCHIAL IMPLANT STUDIES HAVE SHOWN THAT ONLY CALCIUM, STRONTIUM AND ZINC CHROMATES PRODUCED STATISTICALLY SIGNIFICANT INCREASES IN THE NUMBERS OF BRONCHIAL CARCINOMAS WHILE NO SUCH INCREASES WERE SEEN WITH SEVEN DIFFERENT SAMPLES OF LEAD CHROMATE PIGMENTS. THE AVAILABLE EPIDEMIOLOGICAL EVIDENCE ON LEAD CHROMATE PIGMENTS CONFIRMS THESE RESULTS. IN EVERYCASE WHERE EXCESS LUNG CANCER INCIDENCES HAVE BEEN REPORTED, EXPOSURE WAS EITHER TO ZINC CHROMATE OR INVOLVED MIXED EXPOSURES TO VARIOUS COMBINATIONS OF ZINC, LEAD, STRONTIUM AND BARIUM CHROMATES. IN THE ONLY STUDY WHERE EXPOSURE WAS REPORTED TO BE TO LEAD CHROMATES ALONE, NO INCREASED INCIDENCE IN LUNG CANCER WAS OBSERVED. ALL ADDITIVES ARE COMPLETELY ENCAPSULATED IN THE PRODUCT AND AS SUCH, SHOULD NOT PRESENT A HEALTH HAZARD.

REPRODUCTIVE EFFECTS..... N.AV.
 IRRITANCY OF MATERIAL..... SEE SECTION 03.
 SENSITIZING CAPABILITY OF MATERIAL. NONE KNOWN.
 SYNERGISTIC MATERIALS..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS**Section 13: DISPOSAL CONSIDERATIONS**

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

Section 14: TRANSPORT INFORMATION

T.D.G. CLASSIFICATION..... NOT REGULATED.
 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.AP.=NOT APPLICABLE
 N.AV.=NOT AVAILABLE
 LABEL CODE:..... NON-CONTROLLED.
 ACGIH..... AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
 IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.
 NIOSH..... NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH.
 NTP..... NATIONAL TOXICOLOGY PROGRAM.
 OSHA..... OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.