



Canada Colors and Chemicals Limited

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

PRODUCT: BLEND B&R WASH

CODE: 240230

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..... Nov11/05
PRODUCT NAME..... BLEND B&R WASH
PRODUCT CODE..... 240230
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
SOLVENT NAPHTHA, (PET), LIGHT ALIPHATIC *CONTAINS N-HEPTANE, CAS# 142-82-5	60-100	SEE SECTION 11	64742-89-8	SEE SECTION 11	SEE SECTION 11
XYLENE (MIXED ISOMERS)	10-30	SEE SECTION 11	1330-20-7	SEE SECTION 11	SEE SECTION 11
ETHYLBENZENE	1-10	SEE SECTION 11	100-41-4	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

HEALTH HAZARDS..... VAPOURS ARE EXPECTED TO BE SLIGHTLY IRRITATING. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. MAY CAUSE MODERATE IRRITATION TO SKIN. REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. VAPOURS MAY BE IRRITATING TO THE EYE. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. POSSIBILITY OF ORGAN OR ORGAN SYSTEM DAMAGE FROM PROLONGED EXPOSURE. SEE SECTION 11 FOR DETAILS. TARGET ORGAN(S): CARDIOVASCULAR SYSTEM, CENTRAL NERVOUS SYSTEM (CNS).

SIGNS AND SYMPTOMS..... RESPIRATORY IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A TEMPORARY BURNING SENSATION OF THE NOSE AND THROAT, COUGHING, AND/OR DIFFICULTY BREATHING. BREATHING OF HIGH VAPOUR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION RESULTING IN DIZZINESS, LIGHT-HEADEDNESS, HEADACHE, NAUSEA AND LOSS OF COORDINATION. CONTINUED INHALATION MAY RESULT IN UNCONSCIOUSNESS AND DEATH. SKIN IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A BURNING SENSATION, REDNESS, SWELLING, AND/OR BLISTERS. EYE IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A BURNING SENSATION, REDNESS, SWELLING, AND/OR BLURRED VISION. IF MATERIAL ENTERS LUNGS, SIGNS AND SYMPTOMS MAY INCLUDE COUGHING, CHOKING, WHEEZING, DIFFICULTY IN BREATHING, CHEST CONGESTION, SHORTNESS OF BREATH, AND/OR FEVER.

EFFECTS OF CHRONIC EXPOSURE..... REFER TO ROUTE OF ENTRY. SOLVENT ABUSERS EXPOSED TO HIGH DOSES OF AROMATIC SOLVENTS(EG.TOLUENE/XYLENE) SHOW SIGNS OF HEARING LOSS AS WELL AS DAMAGE TO THE BRAIN, LIVER, AND KIDNEY.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE PRE-EXISTING MEDICAL CONDITIONS OF THE FOLLOWING ORGAN(S) OR ORGAN SYSTEM(S) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL: EYES, SKIN, RESPIRATORY SYSTEM. KIDNEY DISEASE. LIVER DISORDERS.

Section 04: FIRST AID MEASURES

INSTRUCTIONS:..... IN GENERAL NO TREATMENT IS NECESSARY, HOWEVER, OBTAIN MEDICAL ADVICE. INHALATION: REMOVE TO FRESH AIR. IF RAPID RECOVERY DOES NOT OCCUR, TRANSPORT TO NEAREST MEDICAL FACILITY FOR ADDITIONAL TREATMENT. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. FLUSH EXPOSED AREA WITH WATER AND FOLLOW BY WASHING WITH SOAP IF AVAILABLE. CONSULT PHYSICIAN IF IRRITATION PERSISTS. EYE CONTACT: FLUSH EYES WITH WATER WHILE HOLDING EYELIDS OPEN. REST EYES FOR 30 MINUTES. IF REDNESS, BURNING, BLURRED VISION, OR SWELLING PERSIST, TRANSPORT TO THE NEAREST MEDICAL FACILITY FOR ADDITIONAL TREATMENT. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING; TRANSPORT TO NEAREST MEDICAL FACILITY FOR ADDITIONAL TREATMENT. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Section 04: FIRST AID MEASURES

NOTES TO PHYSICIAN:..... CAUSES CENTRAL NERVOUS SYSTEM DEPRESSION. DERMATITIS MAY RESULT FROM PROLONGED OR REPEATED EXPOSURE. POTENTIAL FOR CHEMICAL PNEUMONITIS. CONSIDER: GASTRIC LAVAGE WITH PROTECTED AIRWAY, ADMINISTRATION OF ACTIVATED CHARCOAL.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... SEE FLASH POINT.
 EXTINGUISHING MEDIA..... FOAM, WATER SPRAY OR FOG. DRY CHEMICAL POWDER, CARBON DIOXIDE, SAND OR EARTH MAY BE USED FOR SMALL FIRES ONLY. DO NOT DISCHARGE EXTINGUISHING WATERS INTO THE AQUATIC ENVIRONMENT.
 SPECIAL PROCEDURES..... WEAR FULL PROTECTIVE CLOTHING AND SELF CONTAINED BREATHING APPARATUS. KEEP ADJACENT CONTAINERS COOL BY SPRAYING WITH WATER. DO NOT USE WATER IN A JET.
 FLASH POINT (C), METHOD..... 14-18 (57-64 F) TAGLIABUE CLOSED CUP.
 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 HAZARDS WILL FLOAT AND CAN BE REIGNITED ON SURFACE WATER. THE VAPOUR IS HEAVIER THAN AIR, SPREADS ALONG THE GROUND AND DISTANT IGNITION IS POSSIBLE. IN USE, MAY FORM FLAMMABLE/EXPLOSIVE VAPOUR-AIR MIXTURE. ELECTROSTATIC CHARGES MAY BE GENERATED DURING PUMPING. ELECTROSTATIC DISCHARGE MAY CAUSE FIRE.
 HAZARDOUS COMBUSTION PRODUCTS.. CARBON MONOXIDE MAY BE EVOLVED IF INCOMPLETE COMBUSTION OCCURS.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... AVOID CONTACT WITH SPILLED OR RELEASED MATERIAL. IMMEDIATELY REMOVE ALL CONTAMINATED CLOTHING. SHUT OFF LEAK, IF POSSIBLE WITHOUT PERSONAL RISKS. REMOVE ALL POSSIBLE SOURCES OF IGNITION IN THE SURROUNDING AREA. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. PREVENT FROM SPREADING OR ENTERING DRAINS, DITCHES OR RIVERS BY USING SAND, EARTH, OR OTHER APPROPRIATE BARRIERS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. ENSURE ELECTRICAL CONTINUITY BY BONDING AND GROUNDING (EARTHING) ALL EQUIPMENT. ABSORB ON SAND OR OTHER NON-COMBUSTIBLE ABSORBENT. REMOVE CONTAMINATED SOIL AND DISPOSE OF SAFELY. DO NOT FLUSH AWAY RESIDUES WITH WATER.
 NOTE..... NOTIFY AUTHORITIES IF ANY EXPOSURE TO THE GENERAL PUBLIC OR THE ENVIRONMENT OCCURS OR IS LIKELY TO OCCUR. VAPOUR MAY FORM AN EXPLOSIVE MIXTURE WITH AIR.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT AVOID BREATHING OF OR CONTACT WITH MATERIAL. ONLY USE IN WELL VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING. ENSURE ELECTRICAL CONTINUITY BY BONDING AND GROUNDING (EARTHING) ALL EQUIPMENT. RESTRICT LINE VELOCITY DURING PUMPING IN ORDER TO AVOID GENERATION OF ELECTROSTATIC DISCHARGE (≤ 1 M/SEC UNTIL FILL PIPE SUBMERGED TO TWICE ITS DIAMETER, THEN ≤ 7 M/SEC). AVOID SPLASH FILLING. DO NOT USE COMPRESSED AIR FOR FILLING, DISCHARGING, OR HANDLING OPERATIONS. HANDLE AND OPEN CONTAINER WITH CARE IN A WELL-VENTILATED AREA. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. EXTINGUISH ANY NAKED FLAMES. REMOVE IGNITION SOURCES. THE VAPOUR IS HEAVIER THAN AIR, SPREADS ALONG THE GROUND AND DISTANT IGNITION IS POSSIBLE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. EMPTY CONTAINERS ARE HAZARDOUS, MAY CONTAIN FLAMMABLE/EXPLOSIVE DUSTS, LIQUID RESIDUE OR VAPOURS. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.
 STORAGE NEEDS..... KEEP AWAY FROM AEROSOLS, FLAMMABLES, OXIDIZING AGENTS, CORROSIVES AND FROM OTHER FLAMMABLE PRODUCTS WHICH ARE NOT HARMFUL OR TOXIC TO MAN OR TO THE ENVIRONMENT. STORAGE TEMPERATURE: AMBIENT.

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Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE.....	CHEMICAL IMPERVIOUS GLOVES. CONTACT GLOVE MANUFACTURER FOR SPECIFIC INFORMATION.
RESPIRATORY/TYPE.....	IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO A LEVEL WHICH IS ADEQUATE TO PROTECT WORKER HEALTH, AN APPROVED RESPIRATOR MUST BE WORN. IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO A LEVEL WHICH IS ADEQUATE TO PROTECT WORKER HEALTH, SELECT RESPIRATORY PROTECTION EQUIPMENT SUITABLE FOR THE SPECIFIC CONDITIONS OF USE AND MEETING RELEVANT LEGISLATION. CHECK WITH RESPIRATORY PROTECTIVE EQUIPMENT SUPPLIERS. WHERE AIR-FILTERING RESPIRATORS ARE SUITABLE, SELECT AN APPROPRIATE COMBINATION OF MASK AND FILTER. SELECT A FILTER SUITABLE FOR ORGANIC GASES AND VAPOURS [BOILING POINT <65 C (149 F)]. WHERE AIR-FILTERING RESPIRATORS ARE UNSUITABLE (E.G., AIRBORNE CONCENTRATIONS ARE HIGH, RISK OF OXYGEN DEFICIENCY, CONFINED SPACE) USE APPROPRIATE POSITIVE PRESSURE BREATHING APPARATUS.
EYE/TYPE.....	CHEMICAL SPLASH GOGGLES (CHEMICAL MONOGOGGLES).
FOOTWEAR/TYPE.....	SAFETY SHOES AND BOOTS SHOULD BE CHEMICAL RESISTANT.
CLOTHING/TYPE.....	USE PROTECTIVE CLOTHING WHICH IS CHEMICAL RESISTANT TO THIS MATERIAL.
OTHER/TYPE.....	EYE WASHES AND SHOWERS FOR EMERGENCY USE.
NOTE.....	WASH HANDS BEFORE EATING, DRINKING, SMOKING AND USING THE TOILET. SKIN NOTATION MEANS THAT SIGNIFICANT EXPOSURE CAN ALSO OCCUR BE ABSORPTION OF LIQUID THROUGH THE SKIN AND OF VAPOUR THROUGH THE EYES OR MUCOUS MEMBRANES.
ENGINEERING CONTROLS.....	THE LEVEL OF PROTECTION AND TYPES OF CONTROLS NECESSARY WILL VARY DEPENDING UPON POTENTIAL EXPOSURE CONDITIONS. SELECT CONTROLS BASED ON A RISK ASSESSMENT OF LOCAL CIRCUMSTANCES. APPROPRIATE MEASURES INCLUDE: ADEQUATE EXPLOSION-PROOF VENTILATION TO CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE QUIDELINES/LIMITS.
NOTE.....	LOCAL GUIDELINES ON EMISSION LIMITS FOR VOLATILE SUBSTANCES MUST BE OBSERVED FOR THE DISCHARGE OF EXHAUST AIR CONTAINING VAPOUR.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	LIQUID.
ODOUR.....	CHARACTERISITC.
ODOUR THRESHOLD.....	N.AV.
VAPOUR PRESSURE (MMHG).....	N.AV.
VAPOUR DENSITY (AIR=1).....	~4.0.
EVAPORATION RATE.....	~0.8.
BOILING POINT.....	118-150 C/245-302 F.
PH.....	N.AP.
SPECIFIC GRAVITY (WATER=1).....	~0.78.
SOLUBILITY IN WATER (% W/W).....	NEGLIGIBLE.
OCTANOL/WATER PARTITION COEFFICIENT.....	N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	
YES.....	STABLE UNDER NORMAL CONDITIONS OF USE.
NO, WHICH CONDITIONS?.....	AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.
COMPATABILITY WITH OTHER SUBSTANCES:	
YES	
NO, WHICH ONES?.....	STRONG OXIDIZING AGENTS. XYLENE WILL ATTACK SOME FORMS OF PLASTICS, RUBBER AND COATINGS.
REACTIVITY CONDITIONS?.....	AVOID EXCESSIVE HEAT, OPEN FLAMES AND ALL IGNITION SOURCES.
HAZARDOUS DECOMPOSITION PRODUCTS.....	SEE HAZARDOUS COMBUSTION PRODUCTS.
HAZARDOUS POLYMERIZATION.....	NO.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL.....	VM&P/LIGROINE NAPHTHA: 300 PPM (ACGIH-TWA); OCTANE: 300 PPM (ACGIH-TWA); N-HEPTANE: 400 PPM (ACGIH-TWA), 500 PPM (ACGIH-STEL). XYLENE (MIXED ISOMERS): 100PPM (150 PPM ACGIH STEL). ETHYLBENZENE: 100 PPM (STEL: 125 PPM).
LC 50 OF MATERIAL, SPECIES & ROUTE..	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC: >3400 PPMV/4 HOURS, INHALATION-RAT. XYLENE (MIXED ISOMERS): INHALATION-RAT = 6700 PPM FOR 4 HOURS. ETHYLBENZENE: INHALATION-RAT = 4000 PPM FOR 4 HOURS.

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Section 11: TOXICOLOGICAL INFORMATION

LD 50 OF MATERIAL, SPECIES & ROUTE.. SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC: >2000 MG/KG, ORAL-RAT; >2000 MG/KG, DERMAL-RAT. XYLENE, MIXED ISOMERS: 8640 MG/KG (ORAL-RAT), 4300 MG/KG (DERMAL-RABBIT). ETHYLBENZENE: ORAL-RAT = 3500 MG/KG; DERMAL-RABBIT = 17.8 ML/KG.

CARCINOGENICITY OF MATERIAL..... THIS PRODUCT CONTAINS ETHYLBENZENE. ETHYLBENZENE HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.

MUTAGENICITY..... NO EVIDENCE OF MUTAGENIC ACTIVITY.

REPRODUCTIVE EFFECTS..... HIGH EXPOSURE TO XYLENE IN SOME ANIMALS STUDIES, OFTEN AT LEVELS TOXIC TO THE MOTHER, AFFECTED EMBRYO/FETAL DEVELOPMENT. THE RELEVANCE OF THIS TO HUMANS IS NOT KNOWN.

IRRITANCY OF MATERIAL..... SEE SECTION 03.

SENSITIZING CAPABILITY OF MATERIAL. NOT EXPECTED TO BE A SKIN SENSITIZER.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL INFORMATION..... MAY BE HARMFUL.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL, AND LOCAL LAWS AND REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN REGIONAL OR NATIONAL REQUIREMENTS AND MUST BE COMPLIED WITH.

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, D2A, D2B.

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

DSL..... LISTED.

N.AV.=NOT AVAILABLE

N.AP.=NOT APPLICABLE