MATERIAL SAFETY DATA SHEET PPT-RL-(01 through 10) - RELEASE COATING

SECTION I: PRODUCT INFORMATION

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В

MANUFACTURED FOR: **IMAGE GROUP** 2284 SPEERS ROAD OAKVILLE, ONTARIO L6L 2X8 905) 825-5600

HAZARD RATING:

PRODUCT NAME: PPT-RL-(01 through 10) RELEASE COATING

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HFAI TH REACTIVITY TRANSPORTATION INFORMATION: **RESIN SOLUTION - FLAMMABLE**

UN1866 CLASS 3 PACKING GROUP II MATERIAL USE: INDUSTRIAL COATING

FLAMMARII ITY PERSONAL PROTECTION

WHMIS CLASSIFICATION: **B2-FLAMMABLE LIQUID**

D2B-TOXIC (EYE AND SKIN IRRITANT)

SECTION II: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT % CAS # **TWAEV** LD50 (mg/kg) LC50 (ppm) **ORAL** SKIN INHALATION POLYVINYL OCTADECYL CARBAMATE 1-10 36671-85.9 N/A N/A N/A N/A **TOLUENE** 90-99 108-88-3 100 650* 12000* 400* *NOTE: LD50, LC50 vary markedly between species. Lowest value shown above.

SECTION III: PHYSICAL DATA

ODOUR & APPEARANCE CLEAR, COLOURLESS, LIQUID WITH PLEASANT PETROLEUM ODOUR

3 1

ODOUR THRESHOLD RANGE - 0.2 - 37ppm 22mmHg / 7.1 kPa (20°C) VAPOUR PRESSURE

VAPOUR DENSITY (AIR=1)

110.6°C **BOILING POINT** FREEZING POINT -95°C SPECIFIC GRAVITY 0.868 (20°C)

WATER SOLUBILITY 0.6 grams per litre (20°C)

SECTION IV: FLAMMABILITY & REACTIVITY

FLASH POINT 4.4°C - 6°C 480°C - 550°C **AUTOIGNITION TEMPERATURE** FLAMMABLE LIMITS 1.2% - 7.1%

HAZARDOUS COMBUSTION PRODUCTS CARBON MONOXIDE, NITROGEN OXIDES, SMOKE, PART OXIDIZED

HYDROCARBON FRAGMENTS

FIREFIGHTING PRECAUTIONS FOAM, DRY CHEMICAL, WATER FOG, WATER SPRAY ONLY TO COOL, PRODUCT

FLOATS ON WATER AND WILL NOT COOL BELOW FLASHPOINT! - FIREFIGHTERS MUST WEAR "SCBA"

SENSITIVITY TO STATICE DISCHARGE WILL ACCUMULATE A STATIC CHARGE ON AGITATION OR WHILE DECANTING

SENSITIVITY TO MECHANICAL IMPACT NOT SENSITIVE

CHEMICAL STABILITY STABLE, WILL NOT POLYMERIZE

STRONG OXIDISING AGENTS, CONC. H₂SO₄ + HNO³, N₂O₄, AgCIO₄, BrF₃, UF₆, REACTIVE WITH

HALOGENS, MOLTEN SULPHUR

DANGEROUS DECOMPOSITION PRODUCTS NONE APART FROM "HAZARDOUS COMBUSTION PRODUCTS"

SECTION V: TOXICOLOGY

EFFECTS OF ACUTE EXPOSURE

SKIN CONTACT AGGRESSIVELY DRYING, IRRITATING

SKIN ABSORPTION SLIGHT, TOXIC EFFECTS NOT ANTICIPATED BY THIS ROUTE SEVERELY IRRITATING, MAY DAMAGE EYES PERMANENTLY EYE CONTACT

50 - 100 ppm - IRRITATING; 50 ppm - HEADACHE & DROWSINESS, 100 ppm - FATIGUE & DIZZINESS; INHALATION

OVER 200 ppm - INTOXICATION, DIZZINESS; OVER 500 ppm - INCO-ORDINATION & CONFUSION

INGESTION HEADACHE, DIZZINESS, DROWSINESS, INTOXICATION

EFFECTS OF CHRONIC EXPOSURE

PROLONGED EXPOSURE MAY CAUSE SKIN CRACKING AND DERMATITIS, REPEATED GENERAL

EXPOSURE OF 200 ppm MAY DAMAGE LIVER AND KIDNEYS

SENSITISING NO

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SECTION V: TOXICOLOGY (continued) page 2 of 3

CARCINOGENIC NO, TUMORIGEN IN RODENTS AT 200 ppm - 400 ppm; NO EVIDENCE OF EFFECT KNOWN

IN HUMANS

REPRODUCTIVE EFFECT REPRODUCTIVE TOXIN IN RODENTS AT 200 ppm - 400 pm, AT ORAL DOSES ABOVE THE LD₅₀, NO

EVIDENCE OF EFFECT IN HUMANS

SYNERGISTIC WITH PRE-EXISTING DERMATITIS

ESTIMATED LD₅₀ ORAL 650 mg/kg TO 4000 mg/kg DEPENDING ON SPECIES; 12000 mg/kg (SKIN, RABBIT)

ESTIMATED LC₅₀ INHALATION 400 ppm - 8800 ppm DEPENDING ON SPECIES

NOTE: LD_{50} & LC_{50} vary substantially between species. The values calculated above are suspicious in view of the existence of far higher values from other studies and of the known toxicity of Xylene, a chemically similar substance. Toluene is probably far less toxic in humans than these numbers suggest.

SECTION VI: PROTECTIVE EQUIPMENT

HANDS "VITON" GLOVE PREFERRED - ALSO "BARRICADE", "TRELLCHEM" AND "RESPONDER" - check with supplier

EYES SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES

RESPIRATOR NOT REQUIRED IF VENTILATION IS ADEQUATE (SEE TWAEV, (1) ABOVE), OR USE ORGANIC VAPOUR CARTRIDGE

CLOTHING IMPERVIOUS (HANDS, ABOVE) APRON, BOOTS, LONG SLEEVES, IF SPLASHING IS ANTICIPATED

SECTION VII: ENVIRONMENT

LEAK PRECAUTION DYKE TO CONTROL SPILLAGE AND PREVENT ENVIRONMENTAL CONTAMINATION

<< FIRE POTENTIAL. Blanket spill with foam as a precaution against accidental ignition >>

HANDLING SPILL

VENTILATE CONTAMINATED AREA, RECOVER FREE LIQUID WITH EXPLOSION-PROOF PUMPS, ABSORB RESIDUE

ON AN INSET CORPORT PLOY UP WITH MONEY PROPERTY OF AN INSET CORPORT PLOY OF THE PROPERTY PLOY OF THE PROPERTY

ON AN INERT SORBENT, PICK UP WITH NON-SPARKING PLASTIC OR ALUMINIUM SHOVEL AND STORE IN CLOSED CONTAINERS FOR DISPOSAL. DON'T OPERATE (TURN ON OR OFF) ANY NON-EXPLOSION-PROOF ELECTRICAL

APPLIANCES NEAR SPILL

WASTE DISPOSAL DO NOT FLUSH TO SEWER, MAY BE INCINERATED IN APPROVED FACILITY

SECTION VIII: STORAGE & HANDLING

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION IX: FIRST AID

SKIN WASH WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND DO NOT REUSE UNTIL

THOROUGHLY CLEANED OR LAUNDERED.

EYES WASH EYES WITH PLENTY OF WATER , HOLDING EYELIDS OPEN. SEEK MEDICAL ASSISTANCE PROMPTLY IF

THERE IS ANY IRRITATION

INHALATION REMOVE FROM CONTAMINATED ARE PROMPTLY. CAUTION: RESCUER MUST NOT ENDANGER HIMSELF! IF

BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION AND SEEK MEDICAL AID PROMPTLY.

INGESTION GIVE MILK TO DILUTE PRODUCT AND TO SLOW ABSORBTION. DO NOT INDUCE VOMITING (SEE NOTE BELOW).

KEEP VICTIM QUIET. IF VOMITING OCCURS, KEEP VICTIMS HEAD BELOW THE HIPS TO PREVENT INHALATION OF

VOMITED MATERIAL. SEEK MEDICAL HELP PROMPTLY.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorbtion of this product. The stomach should be emptied under medical supervision, after the installation of an airway to protect the lungs.

IMAGE GROUP--- 2284 SPEERS ROAD, OAKVILLE, ONTARIO L6L 2X8 ---(905) 825-5600

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SECTION X : ADDITIONAL INFORMATION

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POISON CONTROL CENTRE 800-268-9017

CANUTEC 24 HOUR EMERGENCY SERVICE 613-996-6666

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