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4656 Louis B. Mayer, LAVAL, QC H7P 6E4

## MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME : Duro-Design INC.  
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CITY, STATE & ZIP CODE : LAVAL, QUEBEC. H7L 3W2  
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DATE : January, 5<sup>th</sup> 2008.

### SECTION I - MATERIAL IDENTIFICATION

Product name	Water Base Varnish Urethane
Product code	MP765
Sheen	
Material use	Industrial finish
W.H.M.I.S. classification	Class B, Division 2 / Class D, Subdivision A, Division 2

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	# C.A.S.	ACGIH TLV/PPM	CONC. %	LEL	VAPOUR PRESSURE
Pyrolidone Methyl	872-50-4	N.E.	8-12	1.0	0.3
Triethylamine	121-44-8	10	3-5	1.5	54
Di Propylene Glycol Monomethyl Ether	34590-94-8	N.E.	3-5	1.0	0.5
Amnium Hydroxide	112-34-5	N.E.	1.2%	0.5	3

### SECTION III - PHYSICAL DATA

Physical state	Gas ( ) Liquid (x) Solid ( )	Odour & appearance	Petroleum odour,
Vapour density	Not available	Odour threshold	Not available
Evaporation rate	Slower than ether	Specific gravity	1.027
Boiling point (°C)	Not available	% volatile (by weight)	20%
Freezing point (°C)	Not available	pH	Not available
Coef Water / oil dist	Not available	Weight per gallon	10.27 lbs/gal.



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**SECTION IV - FIRE OR EXPLOSION HAZARD**

<b>Flammability... If yes, under which conditions?</b>	<b>Means of extinction</b>
Yes (x) Can ignite at temperature above the flash point or on hot surfaces above the auto-ignition temperature. No ( )	Water Spray ( ) Carbon Dioxide ( x ) Dry Chemical (x) Foam ( x)

**Special Procedures: Explosion hazard. Fight fire from behind an explosion proof barrier. Use self-contained breathing equipment and protective clothing.**

<b>Flash Point ( *C) and Method</b>	100 C	<b>Auto Ignition Temperature ( *C)</b>	Not Available.
<b>TDG Flammability Classification</b>	Not Available	<b>U.E.L. (% per volume):</b>	Not Available.
<b>Sensitive to Impact</b>	Not Available	<b>L.E.L. (% per volume):</b>	Not Available.

<b>Sensitivity to Static Discharge</b>	
<b>Hazardous Combustion Products</b>	Carbon dioxide, Carbon monoxide, & nitrogenous products.

**SECTION V - REACTIVITY DATA**

<b>Chemical Stability:</b>	Stable.
<b>Incompatibility with other substances:</b>	Strong Oxidizing Agents.
<b>Conditions of Reactivity:</b>	
<b>Hazardous Decomposition Products (if any):</b>	

**SECTION VI - TOXICOLOGICAL PROPERTIES**

<b>Route of Entry:</b>	Skin Contact (x) Ingestion (x) Inhalation Acute (x) Skin Absorption (x) Eye Contact (x) Inhalation Chronic (x)
<b>Irritancy:</b>	Is a severe irritant.
<b>Carcinogenicity:</b>	Contains a suspect carcinogen.
<b>Mutagenicity:</b>	May cause heritable genetic damage.
<b>Teratogenicity:</b>	May cause birth defects.
<b>Reproductive Toxicity:</b>	May be toxic to foetus (animal studies).
<b>Sensitization to Product:</b>	May cause allergic skin reaction.
<b>Effects of Acute Exposure to Material:</b>	May be harmful if absorbed through skin. Serious eye irritation. May cause dizziness, headache and nausea if inhaled. Working in confined space could lead to unconsciousness. Highly toxic if swallowed.
<b>Effects of Chronic Exposure to Material:</b>	May affect: Skin, Eyes, Blood, Lungs, Stomach, Intestinal tract, Liver, Kidneys, Central nervous system, Heart. May cause: Dermatitis, Skin ulcers, Eye Ulcers.
<b>Exposure Limits:</b>	As exposure limits such as TLV, LD50 and LC50 have not been determined on formulated products, all available information has been listed with the hazardous ingredients in section II.



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### SECTION VII - PREVENTIVE MEASURES

Personal protective equipment	Use silicone free barrier cream, solvent resistance gloves, impermeable footwear, and protective clothing, Wear chemical safety goggles. Use air purifying respirator with dust and vapour removal canisters.
Engineering controls	Use local ventilation with minimum of ten air changes per hour
Leak and spill procedure	Eliminate immediately all sources of ignition. Evacuate all personnel. Use self contained breathing equipment. Dyke spill. Do not flush into sewers. Ventilate. Absorb with sand. Place in sealable containers. Avoid sparks. May be toxic to aquatic and animal life.
Waste disposal	Use sanitary landfill or incinerator in accordance with local, provincial and federal regulation.
Handling procedures and equipment	Vapours heavier than air causing health, explosion hazards. Do not breath the vapours or spray mist. Avoid formation of electrostatic sparks and discharges. Keep containers tightly closed when not in use. Use in well ventilated areas. Wash before meals, before using toilets and at end of shift. Launder contaminated clothing before re-use.
Storage requirements	Keep from moisture and rain. Keep in a cool place away from flames, sparks and hot surfaces. Keep from freezing.
Special shipping information	Keep from freezing

### SECTION VIII - FIRST AID MEASURES

Skin	Wash affected areas with soap and water. Remove contaminated clothing, If irritation persists, see doctor
Eyes	Flush immediately with water for 15 minutes, see doctor
Inhalation	Remove to fresh air. Aid breathing, see doctor at once
Ingestion	Do not induce vomiting, see doctor at once.