

**MATERIAL SAFETY DATA SHEET**
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**SECTION I - PRODUCT IDENTIFICATION**  
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**Product name:** Masters Aquaproof Solvent Cement  
**Chemical name and family:** Mixture of Resin and Organic Solvents  
**Material use:** Solvent Cement

**Supplier name and address:**

G.F. THOMPSON CO. LTD.  
 620 Steven Court, Unit # 11  
 Newmarket, Ontario  
 L3Y 6Z2  
 Tel.: 905-898-2557

**Emergency Tel. #:**  
 (905) 898-2557

**Manufacturer name and address:**

Refer to supplier

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**SECTION II - HAZARDOUS INGREDIENTS**  
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Hazardous Ingredients	CAS#	Approx %	ACGIH TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	A) AEL	B) STEL
Synthetic Elastomer Resin	NON/HAZ		N/A		N/A			
Methyl Ethyl Ketone (MEK)	78-93-3	70-81	200 PPM	300 PPM	200 PPM	300 PPM		
Tetrahydrofuran (THF)*	109-99-9	1-10	200 PPM	250 PPM	200 PPM	250 PPM	50 PPM	75 PPM

A) Dupont and BASF mfg's Acceptable Exposure Limit (AEL) guideline for 8 hour and 12 hour TWA, B) Dupont/BASF recommended STEL for 15 minute TWA.

\* Information found in a report from the National Toxicology Program (NTP) on an inhalation study in rats and mice suggests that Tetrahydrofuran (THF) can cause tumours in animals. In the study the rats and mice were exposed to the THF vapour levels up to 1800 PPM for two years (their lifetime), 6 hours/day, 5 days/week. Test results showed evidence of liver tumours in female mice and kidney tumours in male rats. No evidence of tumours was seen in female rats and male mice. There is no data linking Tetrahydrofuran exposure with cancer in humans.

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**SECTION III - PHYSICAL DATA**  
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**Appearance:** Clear, medium syrupy liquid

**Odour:** Ketone

**Boiling Point:** 151°F (67°C) Based on first boiling component: THF

**Specific Gravity:** @ 73°F± 3.6° (23°C± 2°C) Typical 0.845 ± 0.040

**Vapour Pressure (mm HG):** 143mm hg. Based on first boiling component, THF @ 68°F (20°C)

**Percent Volatile by Volume (%):** Approximate: 75 – 90%

**Vapour Density (Air=1):** 2.49

**Evaporation Rate (BUAC=1) :** >1.0

**Solubility in Water:** Solvent portion completely soluble in water. Resin portion separates out.

VOC STATEMENT: VOC as manufactured: 740 Grams/Litre (g/l). Maximum VOC emissions when applied and tested per SCAQMD Rule 1168, Test Method 316A: 570g/l.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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**Flash Point:** -4°F (-20°C) T.C.C. Based on THF

**Flammable Limits:** (percent by volume)

**LEL:** 2.0

**UEL:** 11.8

**Fire Extinguishing Media:** Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide or foam extinguisher can be used for small fires. Use of a water by fog by trained personnel can extinguish small/large fires.

**Special Fire Fighting Procedures:** Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces require self-contained breathing apparatus, positive pressure mask or airline mask. Use of a water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams/spray distributing burning material or contaminated water over a large area or into sewers or storm drains. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapours.

**Unusual Fire and Explosion Hazards:** Fire hazard because of low flash point and high volatility. Vapours are heavier than air and may travel to source(s) of ignition at or near ground or lower levels and flash back.

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**SECTION V - REACTIVITY DATA**

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**Chemical Stability:** Stable – Keep away from heat, sparks, open flame and other sources of ignition

**Incompatibility:** Materials to avoid- Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

**Hazardous Decomposition Products:** When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.

**Hazardous Polymerization:** Will not occur. Keep away from heat, sparks, open flame and other sources of ignition.

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**SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT**

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**Route of entry:** Inhalation, skin contact

**Inhalation:** Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation or eyes and nasal passages.

**Skin Contact:** Skin irritant. Liquid contact may remove natural skin oils, resulting in skin irritation. Dermatitis may occur with prolonged contact.

**Skin Absorption:** Prolonged or widespread exposure may result in the absorption of harmful amounts of material.

**Eye Contact:** Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Vapours slightly uncomfortable.

**Ingestion:** Moderately toxic. May cause nausea, vomiting, diarrhoea. May cause mental sluggishness.

**CHRONIC:** Symptoms or respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000ppm THF for 90 days. Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.

**Medical Condition Aggravated By Exposure:** Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposures.

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## SECTION VII - PREVENTIVE MEASURES

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### **Personal Protective Equipment:**

**Skin Protection:** PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent resistant barrier cream should provide adequate protection when normal solvent-cement welding practices and procedures are used for solvent welding of plastic sheet/pipe joints.

**Respiratory Protection:** Atmospheric levels should be below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapour cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

**Eye Protection:** Splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards & side shields, etc. as appropriate for exposure.

**Ventilation:** Use only with adequate ventilation. Do not use in close quarters or confined spaces. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants below levels listed in Section II. Use only explosive-proof ventilation equipment.

**Other Protective Equipment and Hygienic Practices:** Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

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## SECTION VIII – SPILL OR LEAK PROCEDURES

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**Leak and spill procedure:** Eliminate all ignition sources. Avoid breathing vapours. Flush with large amounts of water. Contain liquid with sand or earth. Absorb with sand or non-flammable absorbent material and transfer into steel drum for recovery or disposal. Prevent liquid from entering drains.

**Waste disposal:** Follow local, Provincial and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing.

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## SECTION IX – SPECIAL PRECAUTIONS

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**Handling and Storing:** Store between 40°F - 110° F (5°C – 43.7°C). Keep away from heat, sparks open flame and other sources of ignition. Avoid prolonged breathing of vapour. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.

**Storage requirements:** Store in a cool dry place. Keep out of reach of children. Avoid freezing or excessive heat.

**Special shipping information:** Non-regulated

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## SECTION X - FIRST AID MEASURES

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**Inhalation:** If overcome by vapours, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

**Eye Contact:** Flush eyes with plenty of water for 15 minutes and call a physician.

**Skin Contact:** Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

**Ingestion:** Give 1 or 2 glasses for water or milk. Do not induce vomiting. Call physician or poison control center immediately.

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**SECTION IX OTHER INFORMATION**  
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

**CEPA information:** All ingredients are listed on the DSL/NDSL.

**TSCA information:** All ingredients are listed on the TSCA inventory.

**Legend:** N/ap – Not Applicable  
N/av – Not Available  
OSHA – Occupational Safety and Health Act  
TLV – Threshold Limit Value  
ACGIH - American Conference of Governmental Industrial Hygienists  
CEPA – Canadian Environmental Protection Act  
TSCA – Toxic Substances Control Act

**References:** Canadian Centre for Occupational Health and Safety, databases  
Material Safety Data Sheet from manufacturer  
N. Irving Sax. Dangerous Properties of Industrial Materials  
Hawley's. Condensed Chemical Dictionary, Eleventh Edition

**Prepared by:** G.F. Thompson Co. Ltd.

**Phone number:** (905) 898-2557

**Preparation date:** December 1, 2009  
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