




# Material Safety Data Sheet

<b>WHMIS</b>	<b>Protective Clothing</b>	<b>TDG Road/Rail</b>
		

## SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

**Product name:** Triumph Solvit (34555)      **Effective Date:** 8/1/2003      **Code No.:** 366A  
**Product use:** Delimer/Descaler  
**WHMIS:** WHMIS CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).  
 WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).  
 WHMIS CLASS E: Corrosive liquid.  
**TDG:** Class 8: Corrosive material  
 Shipping name: Corrosive liquids n.o.s. (Phosphoric acid) UN: 1760 PG: III  
**Manufacturer:** Armco Inc.  
 3700 Weston Road  
 Toronto, ON M9L 2Z4  
 (416) 746-3700  
**Supplier:**

**EMERGENCY PHONE : CANUTEC (613) 996-6666**

## SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Wt%	ACGIH-TLV	LC <sub>50</sub> /LD <sub>50</sub>
1) Phosphoric acid	7664-38-2	15-40	Not available.	ORAL (LD50): Acute: 1530 mg/kg [Rat]. DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].
2) Citric acid anhydrous.	77-92-9	1-5	Not available.	ORAL (LD50): Acute: 6730 mg/kg [Rat].
3) Hydroxyacetic Acid	79-14-1	1-5	Not available.	ORAL (LD50): Acute: 1950 mg/kg [Rat].
4) Hydrochloric acid	7647-01-0	1-5	Not available.	ORAL (LD50): Acute: 900 mg/kg [Rabbit].

## SECTION III - PHYSICAL DATA

<b>Boiling point:</b>	Not available.	<b>Specific Gravity:</b>	1.182 (Water = 1)
<b>Vapour Pressure:</b>	Not available.	<b>Vapor Density:</b>	Not available.
<b>Solubility in Water:</b>	Complete	<b>Percent Volatile:</b>	Not available.
<b>Physical State:</b>	Liquid.	<b>Evaporation Rate:</b>	Not available.
<b>Appearance and Odour:</b>	Green. Acidic	<b>pH (as supplied):</b>	1.0 to 2.0
		<b>Viscosity:</b>	Not available.

## SECTION IV - FIRE AND EXPLOSION DATA

**Flammability:** Non-flammable.  
**Flash Points:** Not applicable.  
**Flammable Limits:** Not applicable.  
**Hazardous Combustion Products:** Not applicable.  
**Means of Extinction:** Water, dry chemical, carbon dioxide. Water run off may be acidic.  
**Special Fire Hazards:** None known

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### SECTION V - REACTIVITY DATA

**Stability:** The product is stable.  
**Incompatibility:** Alkali materials, bases.  
**Hazardous Decomposition Products:** None known to us at this time.

### SECTION VI - TOXICOLOGICAL PROPERTIES

**Routes of Entry:** Skin contact. Eye contact. Ingestion.  
**Acute Effects on Humans:** Skin and eye irritant.  
**Chronic Effects on Humans:** CARCINOGENIC EFFECTS: None known.  
MUTAGENIC EFFECTS: None known.  
TERATOGENIC EFFECTS: None known.  
DEVELOPMENTAL TOXICITY: Not toxic.  
**Synergistic Materials:** Not available.

### SECTION VII - PREVENTIVE MEASURES

**Gloves:** Acid resistant such as neoprene or rubber.  
**Eye Protection:** Approved safety glasses or goggles.  
**Respiratory Protection:** Not required under normal use conditions.  
**Other Protective Equipment:** Exposure to bare skin should be minimized.  
**Engineering Controls:** General ventilation normally adequate.  
**Leak and Spill Procedure:** Small quantities may be flushed with large amounts of water.  
In case of larger amounts, contain liquid. Use lime or soda ash to neutralize.  
**Waste Disposal:** See above procedure or contact local environmental authorities.  
**Storage Requirements:** Do not store with bases, chlorine compounds or oxidizers.

### SECTION VIII - FIRST AID

**Eye:** Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. DO NOT use an eye ointment. Seek immediate medical attention.  
**Skin:** Remove the contaminated clothes as quickly as possible. Flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.  
**Inhalation:** Remove to fresh air. Call physician and/or transport to a medical facility.  
**Ingestion:** DO NOT induce vomiting. Give large amounts of water or milk if immediately available and transport to a medical facility.

### SECTION IX - OTHER INFORMATION

**References:** Not available.  
**Additional remarks:** No additional remark.

Validated by Armco Inc. on 8/1/2003.

Verified by Technical Director.

Printed 8/1/2003.

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