



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: G-S Hypo Cement		DATE: June 17, 2010	
PRODUCT NUMBER(S):			
TRADE NAME: G-S Hypo Cement GENERAL USE: Adhesive CHEMICAL FAMILY: Organics PRODUCT DESCRIPTION: Transparent, clear, flammable liquid, aromatic odor.			
MANUFACTURED FOR: G-S Supplies Inc.		EFFECTIVE DATE: June 17, 2010 EXPIRATION DATE: June 17, 2013 PREVIOUS REVISION: April 12, 2010	
ADDRESS (NUMBER, STREET, P.O. BOX) 1150 University Avenue, Suite 5		TELEPHONE NUMBER FOR INFORMATION / Customer Service (585) 241-2370	
(CITY, STATE AND ZIP CODE) Rochester, NY 14607	COUNTRY USA	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER; Flammable liquid and vapor. Contents Harmful. Colorless flammable liquid, potentially hazardous vapors. Can cause serious or fatal complications if swallowed. Product is hazardous by aspiration. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Product poses environmental hazard.

POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

INHALATION:
 High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise. Product causes central nervous system effects which may be reversible in mild cases but may become progressively worse with exposures to high concentrations. In serious cases unconsciousness, coma, and death may occur.

SKIN:
 Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis with defatting of the skin. Product may cause central nervous system effects through skin exposure as product may be absorbed through skin.

EYES:
 High vapor concentration or direct contact may cause irritation and discomfort, including chemical conjunctivitis..

INGESTION:
 May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

CHRONIC EFFECTS

Chronic exposure to concentrated product or product vapors (as seen in cases of intentional misuse) may result in profound neurological effects with the destruction of nerve tissues. Confusion, dizziness, headache, weakness, and tremor may be seen. Renal and hepatic damage may occur, and hematologic pathologies such as anemias may also occur; these symptoms are especially likely with chronic exposure to high concentrations of product. Eye damage may occur, as both a result of chronic direct contact or as a sequelae to nervous system damage.

CARCINOGENICITY:
 NTP? **No** IARC MONOGRAPHS? **No** OSHA REGULATED? **No**

SECTION 3 - HAZARDOUS INGREDIENTS

Component	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Xylene (mixed) (a,b,c)	15 - 40	1330-20-7	215-535-7	F, Xn	R10, R20/21, R38
Heptane	15 - 40	142-82-5	205-563-8	F, Xn, N	R11, R38, R50/53, R65, R67

(a, c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

MATERIAL SAFETY DATA SHEET

Page 2 of 5

PRODUCT NAME: G-S Hypo Cement

PRODUCT NUMBER(S):

DATE:

June 17, 2010

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

EYES:

Check for and remove contact lenses if possible. Flush eyes with clear running potable water for at least 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

SKIN:

Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION:

DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

SECTION 5 - FIRE FIGHTING MEASURES

DATA RELATED TO FIRE:

FLASH POINT:	52° F (11.1° C) PMCC	AUTO-IGNITION TEMPERATURE:	419° F (215° C)
FLAMMABLE/EXPLOSIVE LIMITS:		LOWER:	1.1%
		UPPER:	7.0%

SENSITIVITY TO MECHANICAL IMPACT / STATIC DISCHARGE: Insensitive to mechanical impact, slight sensitivity to static discharge.

GENERAL HAZARDS:

FLAMMABLE LIQUID. Products of combustion include compounds of carbon, hydrogen and oxygen, including Carbon Monoxide. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.

ACCEPTABLE EXTINGUISHING MEDIA:

Carbon Dioxide, water fog, dry chemical, chemical foam.

UNACCEPTABLE EXTINGUISHING MEDIA:

Water Stream (portions of ignited product may float on water and spread fire)

FIRE FIGHTING PROCEDURES:

Firefighters must wear full facepiece Self-Contained Breathing Apparatus (SCBA) in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers can rupture due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is flammable!

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, soot, fumes or vapors, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CAUTION - FLAMMABLE - Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. **CAUTION - FLAMMABLE** - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

MATERIAL SAFETY DATA SHEET

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION								
COMPONENT	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Xylene (mixed) (a,b,c)	100	435	150	655	100	434	150	651
Heptane	85	350	--	--	400	1640	500	2050
PERSONAL PROTECTION								
ENGINEERING CONTROLS: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, forced-air ventilation is required.								
RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.								
PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.								
EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.								
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.								
WORK / HYGIENIC PRACTICES: Practice safe workplace habits and proper hygiene. Wash hands after use and before eating, drinking or using tobacco. Minimize body contact with this, as well as all chemicals in general.								
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES								
APPEARANCE AND ODOR Transparent, clear liquid, aromatic odor.					VAPOR PRESSURE 40 mm Hg @ 20° C			
ODOR THRESHOLD NA					SPECIFIC GRAVITY (WATER = 1) 1.01			
FREEZING/MELTING POINT NA					BOILING POINT 208° F (98° C)			
SOLUBILITY IN WATER Negligible					COEFFICIENT OF WATER OIL DISTRIBUTION NA			
pH NA					SOLUBILITY IN ORGANIC SOLVENTS Soluble in many solvents, including hexane, acetone, toluene			
FLASH POINT 52° F (11.1° C) PMCC					VISCOSITY NA			
FLAMMABLE LIMITS LEL: 1.1% UEL: 7.0%					VAPOR DENSITY (AIR = 1) 3.2			
AUTO-IGNITION TEMPERATURE 419° F (215° C)					EVAPORATION RATE (BUTYL ACETATE = 1) <1			
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION >50%								
NOTES: None.								
SECTION 10 - STABILITY AND REACTIVITY								
STABILITY Product is stable under normal conditions.					CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks.			
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.								
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or								
HAZARDOUS POLYMERIZATION: Will not occur.					CONDITIONS TO AVOID: None related to polymerization.			

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PRODUCT NUMBER(S): _____ **DATE:** June 17, 2010

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD₅₀	Not known - product is harmful by ingestion.
Dermal LD₅₀	Not known - product is irritating by contact with skin and eyes.
Inhalation LC₅₀	Not known - product is an irritant to the respiratory tract.
Irritation / Sensitization	Chemical irritant to eyes, skin and respiratory tract.
Carcinogenicity	Impurities in xylenes are known animal and human carcinogens.
Mutagenicity	Product does not appear to be a mutagen.
Reproductive Toxicity	Xylenes are potentially embryotoxic as evidenced in animal studies.
Teratogenicity	Xylenes are potentially embryotoxic as evidenced in animal studies.

Product Components

Component	CAS # EINECS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise)
Xylene (mixed) (a,b,c)	1330-20-7	4300 mg / kg	5000 ppm / 4H
	215-535-7		
Heptane	142-82-5	NE	75 gm / m3 / 2H Inhalation - mouse
	205-563-8		

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. Product is toxic to aquatic organisms; do not release into environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Adhesives

<p>DOT HAZARD CLASS / Pack Group: 3 / PG II</p> <p>REFERENCE: 49 CFR 173.150, .173, .242</p> <p>UN / NA IDENTIFICATION NUMBER: UN 1133</p> <p>LABEL: 3, FLAMMABLE LIQUID</p> <p>HAZARD SYMBOLS:</p>	<p>IATA HAZARD CLASS / Pack Group: 3, PG II</p> <p>IMDG HAZARD CLASS: 3, PG II</p> <p>RID/ADR Dangerous Goods Code: 3.2</p> <p>TDG Class / Pack Group: 3 / II</p> <p>Hazard Identification Number (HIN): 33</p> <p>Product may be shipped as ORM-D Consumer Quantity or as an IATA limited or excepted quantity or ID8000 Consumer Commodity; consult with shipper for more information.</p>
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Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):

All components of this product are listed.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	Yes	Chronic Health:	Yes
Fire:	Yes	Sudden Release of Pressure:	No
Reactive:	No		

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PRODUCT NUMBER(S): _____ **DATE:** June 17, 2010

SECTION 15 - REGULATORY INFORMATION *Continued*

313 REPORTABLE INGREDIENTS: (a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (USA - Comprehensive Response Compensation and Liability Act): (c) **The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 3,000 lbs) or greater amounts, according to 40 CFR 302.**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:

None

CCPR (Canadian Controlled Products Regulations): **This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B2, D2A, D2B.**



CIDL (Canadian Ingredient Disclosure List): **Listed.**

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Referenced on CDSL.**

EINECS (European Inventory of Existing Commercial Chemical Substances): **Listed.**

WGK Water Quality Index: **2** VbK Index: **A I**

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU/GHS LABEL	SAFETY PHRASES:
<p>R11 : Highly flammable. R20/21 : Harmful by inhalation and in contact with skin. R38 : Irritating to skin. R50/53 : Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. R65 : Damaging to lungs when swallowed. R67 : Vapors may cause drowsiness and dizziness.</p>	 Flammable Harmful Environmental Hazard	<p>S16 : Keep away from sources of ignition. S23 : Do not breathe vapor. S25 : Avoid contact with eyes. S28 : After contact with skin, wash immediately with plenty of soap and water.</p>

SECTION 16 - OTHER INFORMATION

Legend: NA = Not Applicable, NE = Not Established, ND = Not Determined, NR = Not Reported

HMIS HAZARD RATINGS

<p>0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE, 3 = HIGH, 4 = EXTREME * = Chronic Health Hazard PPE = Safety Glasses, Gloves under normal usage</p>	HEALTH:	2*	
	FLAMMABILITY:	3	
	PHYSICAL HAZARD:	0	
	PERSONAL PROTECTIVE EQUIPMENT:	B	

REVISION SUMMARY: Revised to add WHMIS/EU desired information 13 April 2010. LB

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.