

SAFETY DATA SHEET

Date: 6 April 2011

Version: 1

Revision: 1

1. Identification of the substance/preparation and company/undertaking

Product name	G-S Hypo Cement
Use	Adhesive
Supplier	G-S Supplies, Inc., Suite 520, 10 Great Russell Street London WC1B 3BQ, UK
Contact numbers	Information: 01-585-241-2370 / Medical: 01-813-248-0585
E-mail contact	info@gssupplies.com

2. Hazards identification

Classification	F, R11; Xn, R20/21-65; Xi, R38; R67; N, R50/53
Health hazards	The product is an aspiration hazard, and may cause serious health risks through lung damage if swallowed. The product is harmful, and may cause drowsiness and dizziness by inhalation. The product may also be harmful in contact with skin, causing local irritation and illness.
Environmental hazards	The substance is very toxic to aquatic organisms and may cause long-term effects in the environment.

Fire and explosion hazards The substance is highly flammable.

3. Composition/information on ingredients

Declarable components	Conc (%)	EC No.	CAS No.	Classification^a
Xylene	15-40	215-535-7	1330-20-7	R10; Xn, R20/21; Xi, R38
Heptane	15-40	205-563-8	142-82-5	F, R11; Xn; R65; Xi; R38, 67; N, R50-53
Other components	Conc (%)	EC No.	CAS No.	Classification
PolyN-butyl methacrylate	–	–	–	None

^a See Section 16 'Other information' for full text of the R-phrases.

4. First-aid measures

Inhalation	If adverse effects (eg irritation of the airways, dizziness or drowsiness) occur during use of the product, remove patient from exposure and give fresh air and rest and obtain medical attention.
Skin contact	Remove contaminated clothing and wash affected area thoroughly with soap and water. If irritation occurs, or contamination is severe, seek medical attention. Launder contaminated clothing before re-use.

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Eye contact	In case of contact with eyes, irrigate with water for 15 minutes, occasionally lifting eyelids. Seek prompt medical advice if irritation (pain, redness, or swelling) or other symptoms occur.
Ingestion	If swallowed, wash out mouth thoroughly and give water to drink. Seek IMMEDIATE medical attention. Speed is essential. Note that the substance poses an aspiration hazard and may produce lung damage if swallowed. Do not induce vomiting.
Medical treatment	Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

5. Fire-fighting measures

Fire and explosive properties

The product is highly flammable. The product may produce flammable vapours which can flash back from source of ignition or ignite explosively.

Extinguishing media

Water spray, carbon dioxide, dry chemical and foam are compatible with the product. Water jets may cause splattering and spread the fire. Remove containers from fire or cool them with water.

Specific hazards

During combustion, product may decompose to form smoke and toxic fumes, gases or vapours, including oxides of carbon and nitrogen.

Protective equipment for fire fighters

Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions

For large-scale spills, ensure full personal protection is worn (see Section 8). Keep unauthorised personnel from the spillage area. Remove all sources of ignition. Use non-sparking equipment.

Environmental precautions

For large-scale spills, prevent leakage of product into water-courses or drainage system by diking with sand or other absorbent material. Contact authorities, water company, and waste-water treatment plant as appropriate if significant contamination occurs.

Method for cleaning up

Stop the source of leak or release. Clean up spill as soon as possible. Small spills can be mopped up with dry cloth or paper. Collect larger spill using techniques such as sorbent materials or pumping. Place material in suitable container for disposal in accordance with local and national regulations. Wash contaminated surfaces with water and detergent, and collect washings for safe disposal. Follow prescribed procedures for

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responding to large spills and reporting to appropriate authorities.

7. Handling and storage

Information for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing as in Section 8. Good general ventilation is recommended.

Storage

Keep only in the original container. Store in a cool, dry, well-ventilated place, away from direct sunlight. Keep container closed when not in use.

8. Exposure controls/personal protection

EU Occupational exposure limits (IOELVs)

Xylene, mixed isomers, pure: 8 h TWA, 221 (50); 15 min, 442 mg/m³ (100 ppm); skin.

Heptane: 8 h TWA, 2085 mg/m³ (500 ppm).

UK Occupational exposure limits (WELs)

Xylene, mixed isomers: 8 h TWA, 220 (50); 15 min, 441 mg/m³ (100 ppm); skin.

Engineering measures

In industrial settings, local exhaust ventilation may be necessary to keep occupational exposure below permitted levels.

Personal protective equipment

For professional use, the need for personal protective equipment should be based on a workplace risk assessment for the particular use. Avoid skin contact by wearing chemical resistant gloves (eg neoprene, butyl, or nitrile rubber) and safety goggles. Where more extensive contact may occur, wear suitable protective clothing (eg apron, sleeves, boots).

Wear suitable respiratory protective equipment if exposure to vapours is likely. PPE should be to European (EN) standards.

9. Physical and chemical properties

Appearance	Transparent, clear liquid
Odour	Aromatic
Boiling point	98 °C
Flash point (typical)	11.1 °C (PMCC)
Explosive properties	LEL, 1.1%; UEL, 7.0%
Autoignition temperature	215 °C
Vapour pressure	40 mmHg (20 °C)
Specific gravity	1.01 (water = 1)
Solubility: in water	Negligible

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Solubility: in solvents	No data available
Viscosity	No data available
Partition coefficient	No data available
Vapour density	3.2 (air = 1)
Evaporation rate	<1 (n-butyl acetate = 1)

10. Stability and reactivity

Stable under recommended storage and handling conditions. No hazardous polymerization.

Conditions to avoid Avoid sources of ignition (eg spark, heat, flame).

Materials to avoid Strong acids and oxidising agents.

Hazardous decomposition products
None known.

11. Toxicological information

The preparation has not been tested for toxicological effects, but it is classified as an aspiration hazard, harmful by inhalation and skin contact, and a skin irritant on the basis of the known hazards of the components.

Acute toxicity The substance contains a substance (heptane) known to present an aspiration hazard. Serious, even fatal, lung damage, chemical pneumonitis and pulmonary oedema may result from ingestion of the product, and subsequent aspiration of vomit
Inhalation of vapour may cause headache, nausea, dizziness, vomiting and malaise.
Skin contact may lead to systemic effects from the xylene component.

Corrosivity/irritation High concentrations of vapour are irritating to the respiratory tract and eyes. The product is a skin irritant. Contact with eyes may cause irritation.

Sensitisation No ingredient has been identified as having sensitising properties.

Repeated-dose toxicity Xylene causes central nervous systemic effects, anaemia, liver and kidney effects, and eye damage after repeated or prolonged exposure.

Carcinogenicity/Mutagenicity/Reproductive toxicity
No component is classified for these effects.

12. Ecological information

Ecotoxicological data have not been determined specifically for this product, but it is expected to be very toxic to aquatic organisms, and cause long-term adverse effects, on the basis of the known hazards of the heptane component.

Mobility The product is water-insoluble, and contains volatile components.

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Persistence/degradability The heptane ingredient is classified for long-term effects.

Bioaccumulation No information available.

Toxicity The heptane ingredient is classified as very toxic to aquatic organisms.

13. Disposal considerations

This product should not be disposed of via the drains or by landfill. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste.

General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

Packaging may contain residues of the product and should be treated accordingly.

14. Transport information

UN No. : 1133
Proper Shipping Name : ADHESIVES
Marine Pollutant : Yes
Class : 3
Label(s) : 3
Classification Code : F1
Packing Group : II
Packing Instruction : P001
HIN : 33

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.

15. Regulatory information

Classification and labelling according to EC Directives

Classification F, R11; Xn, R20/21-65; Xi, R38; R67; N, R50/53

Labelling

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Symbol and indication of danger

Highly flammable



Harmful



Dangerous for the environment

Risk phrases

R20/21, harmful by inhalation and in contact with skin
R38, irritating to skin
R65, harmful: may cause lung damage if swallowed
R50/53, very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases

S2, keep out of the reach of children
S23, do not breathe vapour
S26, in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S61, avoid release to the environment. Refer to special instructions/safety data sheet.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains

Xylene, heptane

UK legislation:

Control of Substances Hazardous to Health Regulations 1999 SI 1999/437.
Health and Safety at Work Act 1974 c 37.
Environmental Protection Act 1990 c 43.
The Environment Act 1995 c 25.
Special Waste Regulations 1996 SI 1996/972.
Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations.

EU legislation:

Dangerous Substances Directive (67/548/EEC)
Dangerous Preparations Directive (99/45/EC)
REACH Regulation (1907/2006)
Chemical Agents Directive (98/24/EC)
Personal Protective Equipment (EC Directive) Regulations SI 1992/3139.

Guidance:

The Compilation of Safety Data Sheets (Third Edition) (CHIP 3 Approved Code of Practice).
Approved Classification and Labelling Guide (Fifth Edition).

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Approved Supply List. Information approved for the classification and labelling of substances and preparations dangerous for supply.

COSHH Essentials: Easy steps to chemical control.

Occupational Exposure Limits EH40.

16. Other information

Revisions: None

Risk phrase explanations: R10, flammable; R11, highly flammable; R20, harmful by inhalation; R21, harmful in contact with skin; R38, irritating to skin; R50, very toxic to aquatic organisms; R53, may cause long-term adverse effects in the aquatic environment; R67, vapours may cause drowsiness and dizziness.

References and basis of classification:

Heptane and xylene have classification given in Annex 1 to 67/548/EEC. The classification of the product has been assessed according to the threshold limits in Annex 1, and generic threshold concentrations given in 99/45/EC. The classification as highly flammable is given on the basis of the flashpoint.

A US MSDS for the product was provided by the supplier.