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1 Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- Trade name: G-S HypoCement
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Application of the substance / the preparation Adhesives
- 1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:

G-S Supplies Inc.

1150 University Avenue, Suite 5

Rochester, NY 14607 USA

Tel (585) 241-2370

- Further information obtainable from: Product Safety Department
- · 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aguatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if

swallowed.

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Xi; Irritant

R38: Irritating to skin.

F; Highly flammable

R11: Highly flammable.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS02 GHS07 GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

heptane

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P233 Keep container tightly closed.
P264 Wash thoroughly after handling.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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P370+P378 In case of fire: Use for extinction: ABC powder.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

Hazard description:

· WHMIS-symbols:

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 3

REACTIVITY Reactivity = 0

HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Description: Mixture of substances listed below with nonhazardous additions.

	xylenes	25-50%
	💢 Xn R20/21; 💢 Xi R38; 🧃 F R11	
	Flam. Liq. 2, H225 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 142-82-5	heptane	25-50%
EINECS: 205-563-8 Index number: 601-008-00-2	Xn R65; Xi R38; 6 F R11; 8 N R50/53 R67	
	♦ Flam. Liq. 2, H225♦ Asp. Tox. 1, H304	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Skin Irrit. 2, H315; STOT SE 3, H336	

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• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out into the fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Do not pull solidified product off the skin.

Clean with water and soap.

If skin irritation continues, consult a doctor.

· After eve contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

Coughing

Dizziness

Headache

Breathing difficulty

Disorientation

· Hazards

Danger of pulmonary oedema.

Danger of impaired breathing.

Danger of cerebral oedema.

Danger of convulsion.

Condition may deteriorate with alcohol consumption.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

Monitor circulation, possible shock treatment.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

Later observation for pneumonia and pulmonary oedema.

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Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water haze or fog.

6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Allow to solidify. Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

Organic solvent

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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Emergency cooling must be available in case of nearby fire.

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

Protect from heat and direct sunlight.

Storage Temperatures : < 86 °F / 30 °C suggested..

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients	· Ingredients with limit values that require monitoring at the workplace:	
xylenes		
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm	
	Long-term value: 221 mg/m³, 50 ppm	
	Skin	
PEL (USA)	435 mg/m³, 100 ppm	
REL (USA)	Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV (USA)	Short-term value: 651 mg/m³, 150 ppm	
	Long-term value: 434 mg/m³, 100 ppm	
	BEI	
EL (Canada)		
	Long-term value: 100 ppm	
EV (Canada)	Short-term value: 650 mg/m³, 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
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142-82-5 hep	tane
	2085 mg/m³, 500 ppm
PEL (USA)	2000 mg/m³, 500 ppm
REL (USA)	Short-term value: C 1800* mg/m³, C 440* ppm
	Long-term value: 350 mg/m³, 85 ppm
	*15-min
TLV (USA)	Short-term value: 2050 mg/m³, 500 ppm
	Long-term value: 1640 mg/m³, 400 ppm
EL (Canada)	Short-term value: 500 ppm
	Long-term value: 400 ppm
EV (Canada)	Short-term value: 2,045 mg/m³, 500 ppm
	Long-term value: 1,635 mg/m³, 400 ppm

- · DNELs No further relevant information available.
- · PNECs No further relevant information available.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

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Butyl rubber, BR

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR

- · Not suitable are gloves made of the following materials: PVA gloves
- · Eye protection:

Contact lenses should not be worn.



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance: Form:

Colour:

Odour:

 Odour threshold:
 PH-value:
 Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 98°C (208 °F)

 Flash point:

 11°C (52 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 215°C (419 °F)

• Decomposition temperature: Not determined.

• Danger of explosion: Product is not explosive. However, formation of explosive air/

Product is not self-igniting.

Liquid Transparent

vapour mixtures are possible.

Explosion limits:

· Self-igniting:

Lower: 1,1 Vol % **Upper:** 6,7 Vol %

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· Vapour pressure at 20°C:	48 hPa	
· Density at 20°C:	1,01 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Avoid temperatures above 86 °C / 30 °C.

· 10.3 Possibility of hazardous reactions

Reacts with strong acids.

Flammable.

Forms flammable gases/fumes.

Reacts with oxidizing agents.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Reacts with peroxides and other radical forming substances.

· 10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrocarbons

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11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

xylenes Oral

LD50 4300 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: The material is harmful to the environment.
- 12.2 Persistence and degradability The product is partly biodegradale. Significant residuals remain.
- · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

The material is harmful to the environment.

This statement was deduced from the properties of the single components.

Avoid transfer into the environment.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Solvent naphtha

14 Transport information	
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN1133
· 14.2 UN proper shipping name· DOT· ADR	ADHESIVES 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
· 14.3 Transport hazard class(es)	
· DOT	
P. NOWAGE LICED	
· Class · Label	3 Flammable liquids. 3
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG	
· Class	3 Flammable liquids.

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Label	3
IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
DOT, ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
14.7 Transport in bulk according to Ann	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Product may be shipped as an IATA limited
	excepted quantity as a Class 9 ID8000 Consum Commodity; consult with shipper for more information
UN "Model Regulation":	UN1133, ADHESIVES, ENVIRONMENTALL
_	HAZARDOUS, 3, II

15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

xylenes

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:

None of the ingredients is listed.

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Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic Categories	
EPA (Environmental Protection Agency)	
xylenes	
142-82-5 heptane	
IARC (International Agency for Research on Cancer)	
xylenes	
TLV (Threshold Limit Value established by ACGIH)	
xylenes	l l
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
Canada	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
Canadian Ingredient Disclosure list (limit 1%)	
142-82-5 heptane	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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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 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Sources

This document was authored and reviewed by the technical and scientific staff at ChemTel Inc. Descriptions, classifications and calculations are based upon data provided by manufacturer and augmented by published data in conjunction with expert analysis by degreed scientists.

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