



Material Safety Data Sheet



Floor glue remover extra strong

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 1030750
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.01
Country : Netherlands **Validation date** : 4-1-2008.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 4-1-2008.
Fax : +31 (0)36 54 94 744 **Responsible name** : P. Stienstra
Internet: : www.hginternational.com **Telephone No.:** : +1.705.726.5445
Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada
Material uses : HG "floor glue remover" is an extra strong and super-fast working glue remover.
In Case of Emergency : Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924

Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Exposure limits
1,3-Dioxolane	646-06-0	30 - 100	Not available.
Dimethoxymethane	109-87-5	15 - 30	Not available.
propylene carbonate	108-32-7	1 - 5	Not available.
pentanedioic acid, dimethyl ester	1119-40-0	1 - 5	Not available.
butanedioic acid, dimethyl ester	106-65-0	1 - 5	Not available.
hexanedioic acid, dimethyl ester	627-93-0	0 - 1	Not available.
disodium (tetrapropenyl)succinate	94086-60-9	0 - 1	Not available.
Hydroxypropyl Methylcellulose		0 - 1	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid. (Jelly-like precipitate liquid.)

Emergency overview : Danger!
HIGHLY FLAMMABLE LIQUID AND VAPOR.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.
VAPOR MAY CAUSE FLASH FIRE.
Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Potential chronic health effects : **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure: : Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure signs/symptoms : Not available.

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[See toxicological information \(section 11\)](#)

Section 4. First aid measures

- Eye Contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to Physician** : Not available.

Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition Temperature** : Lowest known value: 236.9°C (458.4°F) (Dimethoxymethane).
- Flash Points** : Closed cup: Between -18°C (0°F) and 23°C (73°F). (Pensky-Martens.)
- Flammable limits** : Greatest known range: Lower: 4.7% Upper: 21% (propylene carbonate)
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂).
- Fire hazards in presence of various substances** : Flammable in presence of open flames and sparks
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
Highly flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.
- Special remarks on fire hazards** : Combustible when exposed to heat or flame.
- Special remarks on explosion hazards** : Not available.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protection : Not available.

Personal protective equipment (Pictograms) :



Personal protection in case of a large spill : Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

1,3-Dioxolane
Dimethoxymethane
pentanedioic acid, dimethyl ester
butanedioic acid, dimethyl ester
hexanedioic acid, dimethyl ester
disodium (tetrapropenyl)succinate
Hydroxypropyl Methylcellulose

Exposure limits

Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

[Consult local authorities for acceptable exposure limits.](#)

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid. (Jelly-like precipitate liquid.)

Color : Colorless to white (Light.)

Odor : Characteristic. (Strong.)

pH : Not applicable.

Relative density : 1 g/cm³ (20°C / 68°F)

Viscosity : Dynamic: Highest known value: 0.6 cP (Ethylene glycolmethylene ether)
Kinematic: 210 cSt

Solubility : Partially soluble in the following materials: methanol, diethyl ether, n-octanol, acetone.
Insoluble in the following materials: cold water, hot water.

Flash point : Closed cup: Between -18°C (0°F) and 23°C (73°F). (Pensky-Martens.)

Flammability (solid, gas) : Flammable.

Explosive properties : Not available.

Explosion Limits : Greatest known range: Lower: 4.7% Upper: 21% (propylene carbonate)

Oxidizing properties : Not applicable.

Physical chemical comments : Not available.

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Section 10. Stability and reactivity

- Stability and Reactivity** : The product is stable.
- Conditions of instability** : Avoid all possible sources of ignition (spark or flame).
- Incompatibility with various substances** : Not available.
- Hazardous Decomposition Products** : carbon oxides (CO, CO₂)
- Hazardous polymerization** : Will not occur.

Section 11. Toxicological information

1,3-Dioxolane	LD50	5200 mg/kg	Oral	Rabbit
	LD50	3200 mg/kg	Oral	Mouse
	LD50	3000 mg/kg	Oral	Rat
methylal	LD50	>7950 mg/kg	Oral	Rat
	propylene carbonate	LD50	29000 mg/kg	Oral
pentanedioic acid, dimethyl ester	LD50	20700 mg/kg	Oral	Mouse
	LD50	>23780 mg/kg	Dermal	Rabbit
	LD50	>5000 mg/kg	Oral	Rat
butanedioic acid, dimethyl ester	LD50	>5000 mg/kg	Dermal	Rabbit
	LD50	>5000 mg/kg	Oral	Rat
hexanedioic acid, dimethyl ester	LD50	>5000 mg/kg	Dermal	Rabbit
	LD50	>2250 mg/kg	Oral	Rat
disodium (tetrapropenyl)succinate	LD50	>200 mg/kg	Dermal	Rabbit
	LD50	>2000 mg/kg	Oral	Rat
Hydroxypropyl Methylcellulose	LD50	>2000 mg/kg	Oral	Rat

- Chronic effects on humans** : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
- Other toxic effects on humans** : Slightly hazardous by the following route of exposure: of skin contact (irritant). Non-irritating to the eyes. Non-irritant for lungs.
- Special remarks on toxicity to animals** : Not available.
- Special remarks on chronic effects on humans** : Not available.
- Special remarks on other toxic effects on humans** : Not available.
- Specific effects**
- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.

Section 12. Ecological information

methylal	Pimephales promelas (LC50)	96 hour(s)	6990 mg/l
propylene carbonate	Cyprinus carpio (LC50)	96 hour(s)	>1000 mg/l
	Scenedesmus subspicatus (IC50)	72 hour(s)	>900 mg/l
	Daphnia (EC50)	48 hour(s)	>1000 mg/l

- BOD and COD** : Not available.
- Biodegradable/OECD** : Not available.
- Mobility** : Not available.
- Products of degradation** : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and water.
- Toxicity of the products of biodegradation** : The product itself and its products of degradation are not toxic.
- Special remarks on the products of biodegradation** : Not available.

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Section 13. Disposal considerations

Waste information : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste stream : Not available.

[Consult your local or regional authorities.](#)

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	3271	"dangerous goods in limited quantities of class 3" UN 3271, PG II	3	II		Limited quantity Yes. Remarks Limited Quantity
TDG Classification	3271	"dangerous goods in limited quantities of class 3" UN 3271, PG II	3	II		Remarks Limited Quantity
ADR/RID Class	3271	UN3271, ETHERS N.O.S. (Ethyleneglycol Methylene Ether, 67%, mixture), class 3, II, ADR mixture (Ethyleneglycolmethylene ether)	3	II		Hazard identification number 33 Limited quantity LQ4 Remarks Limited quantity for upto 3 liter inner packing
IMDG Class	3271	"dangerous goods in limited quantities of class 3" UN 3271, PG III mixture (Ethyleneglycolmethylene ether)	3	II		Emergency schedules (EmS) F-E, S-D Remarks Limite quantity for upto 1 litre inner packing
IATA-DGR Class	3271	ETHERS N.O.S. (Ethyleneglycol Methylene Ether, 67%, mixture), class 3, UN 3271, PG II (+<23°C) (Ethyleneglycolmethylene ether)	3	II		-

Section 15. Regulatory information

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
CEPA DSL: pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; Dimethoxymethane; Water

International regulations

EINECS : Not available.

DSCL (EEC) : R11- Highly flammable.

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International lists : Australia (NICNAS): pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Dimethoxymethane; Water

China: pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; Dimethoxymethane; Water

Germany water class: pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; Dimethoxymethane

Japan (MITI): pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; disodium (tetrapropenyl)succinate

Japan (MOL): hexanedioic acid, dimethyl ester

Korea (TCCL): pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; Dimethoxymethane; Water

Philippines (RA6969): pentanedioic acid, dimethyl ester; butanedioic acid, dimethyl ester; hexanedioic acid, dimethyl ester; propylene carbonate; Ethyleneglycolmethylene ether; Dimethoxymethane; Water

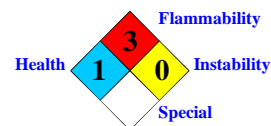
Section 16. Other information

Label Requirements : HIGHLY FLAMMABLE LIQUID AND VAPOR.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.
VAPOR MAY CAUSE FLASH FIRE.

Hazardous Material Information System (U.S.A.)

Health	1
Fire hazard	3
Reactivity	0
Personal protection	C

National Fire Protection Association (U.S.A.)



References : Not available.

Other special considerations : Not available.

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