



Material Safety Data Sheet



Hardwood garden furniture restorer

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 3040500
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 1.01
Country : Netherlands **Validation date** : 22-8-2008.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 22-8-2008.
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 : Has been developed especially for maintaining and protecting hardwood garden furniture.
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
alkanes, c9-12-iso-	90622-57-4	30 - 100	Not available.
Butane	106-97-8	15 - 30	Not available.
linseed oil	8001-26-1	5 - 15	Not available.
tung oil	8001-20-5	5 - 15	Not available.
Propane	74-98-6	5 - 15	Simple asphyxiant.
Perfume		1 - 5	Not available.

Section 3. Hazards identification

Physical State and Appearance : Gas. [Gas.]

Emergency overview : CAUTION! DANGER
FLAMMABLE.
Contains gas under pressure.
Vapor may cause fire.
Hot containers may explode.
Do not smoke.
Do not breathe fumes.
Do not puncture or incinerate container.
Use only in well-ventilated areas.
Keep away from heat, sparks and flame.
Keep out of the reach of children.

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

Potential acute health effects

Eyes : May cause eye irritation.
Skin : Can cause irritation. Repeated exposure may cause skin dryness or cracking.
Inhalation : Can cause irritation.
Ingestion : Can cause irritation.

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

Medical conditions aggravated by overexposure: : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Continued on next page

Over-exposure signs/symptoms : Not available.

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

Section 4. First aid measures

- Eye Contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Skin Contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Notes to Physician** : Not available.

Section 5. Fire fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Auto-ignition Temperature** : 365°C (689°F)
- Flash Points** : Closed cup: <0°C (<32°F)
- Flammable limits** : 0.6 Vol %, 10.9 Vol %
- Products of combustion** : Decomposition products may include the following materials:
carbon oxides
- Fire hazards in presence of various substances** : FLAMMABLE.
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Combustible when exposed to heat or flame.
- Special remarks on explosion hazards** : Not available.

Continued on next page

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Avoid contact with eyes, skin and clothing. Keep out of the reach of children.
- Environmental precautions** : Prevent entry into sewers, basements or confined areas.
- Methods for cleaning up** : Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and storage

- Handling** : Extremely hazardous liquid and vapor under pressure. Do not puncture or incinerate container. Keep container tightly closed in a cool, well-ventilated place. Ventilation is normally required when handling or using this product.
- Storage** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

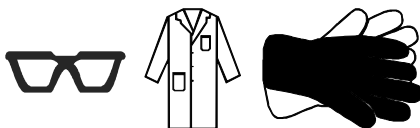
Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Ventilation is normally required when handling or using this product. After handling, always wash hands thoroughly with soap and water.

Personal protection

- Eyes** : Recommended: safety glasses with side shields
- Skin** : Recommended: Work uniform or laboratory coat.
- Respiratory** : Recommended: Ventilation is normally required when handling or using this product. Wear appropriate respirator when ventilation is inadequate.
- Hands** : >8 hours (breakthrough time): Butyl rubber gloves.
- Other protection** : Not available.

Personal protective equipment (Pictograms)



- Personal protection in case of a large spill** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

Product Name

Butane

Exposure limits

ACGIH (United States, 2001).

TWA: 800 ppm

TWA: 1900 mg/m³

ACGIH TLV (United States, 1/2004). Notes: ACGIH 2004 Adoption

TWA: 1000 ppm 8 hour(s). Form: All forms

Propane

ACGIH (United States, 2001).

TWA: 2500 mg/m³

ACGIH TLV (United States, 1/2004). Notes: ACGIH 2004 Adoption

TWA: 1000 ppm 8 hour(s). Form: All forms

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

Section 9. Physical and chemical properties

- Physical State and Appearance** : Gas. [Gas.]
- Color** : Clear Yellow or brown. [Light]
- Odor** : Characteristic. [Slight]
- pH** : Not available.
- Relative density** : 0.718 g/cm³ (20°C / 68°F)
- Viscosity** : Dynamic: 20 mPa·s (20 cP)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Flash point** : Closed cup: <0°C (<32°F)
- Flammability (solid, gas)** : Extremely flammable gas.

Continued on next page

- Explosive properties** : Not available.
- Explosion Limits** : 0.6 Vol %, 10.9 Vol %
- Oxidizing properties** : Not applicable
- Physical chemical comments** : Not available.

Section 10. Stability and reactivity

- Stability and Reactivity** : The product is stable.
- Conditions of instability** : Stable under recommended storage and handling conditions (see section 7). Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).
- Incompatibility with various substances** : Extremely reactive or incompatible with the following materials: oxidizing materials.
- Hazardous Decomposition Products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Will not occur.

Section 11. Toxicological information

- | | | | | |
|---------------------|------|--------------|--------|--------|
| alkanes, c9-12-iso- | LD50 | >10000 mg/kg | Oral | Rat |
| | LD50 | >3200 mg/kg | Dermal | Rabbit |
| | LD50 | >3000 mg/kg | Dermal | Rabbit |
- Chronic effects on humans** : Contains material which causes damage to the following organs: the nervous system, central nervous system (CNS).
- Other toxic effects on humans** : No specific information is available in our database regarding the other toxic effects of this material to humans.
- 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






- | | | | |
|---------------------|-------------|------------|-----------|
| alkanes, c9-12-iso- | Fish (LC50) | 96 hour(s) | >100 mg/l |
|---------------------|-------------|------------|-----------|
- BOD and COD** : Not available.
- Biodegradable/OECD** : Biodegradable
- Mobility** : Not available.
- Products of degradation** : Products of degradation: carbon oxides (CO, CO₂) and water.
- Toxicity of the products of biodegradation** : Not available.
- Special remarks on the products of biodegradation** : Not available.

Section 13. Disposal considerations

- Waste information** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Do not puncture or incinerate container.
- Waste stream** : Not available.
- Consult your local or regional authorities.**

Continued on next page

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1950	"dangerous goods in limited quantities of class 2" UN 1950, PG III Aerosol. Marine pollutant	2.1	III		Marine pollutant Marine pollutant (P) Limited quantity Yes. Remarks Limited Quantity
TDG Classification	1950	"dangerous goods in limited quantities of class 2" UN 1950, PG III Aerosol. Marine pollutant	2.1	III		Marine pollutant Marine pollutant (P) Remarks Limited Quantity
ADR/RID Class	1950	UN 1950, "dangerous goods in limited quantities of class 2", III, Aerosol, ADR (alkanes, c9-12-iso-)	2	III		Reportable quantity 30 Limited quantity LQ2 Remarks Dangerous goods in limited quantities
IMDG Class	1950	"dangerous goods in limited quantities of class 2" UN 1950, PG III, Aerosol (alkanes, c9-12-iso-)	2.1	III		Emergency schedules (EmS) F-D,S-U Reportable quantity 30 Remarks Dangerous goods in limited quantities
IATA-DGR Class	1950	"dangerous goods in limited quantities of class 2" UN 1950, PG III, Aerosol (alkanes, c9-12-iso-)	2.1	III		Remarks Dangerous goods in limited quantities

Section 15. Regulatory information

WHMIS (Canada)

: Class B-1: Flammable gas.

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

International regulations

EINECS :

DSCL (EEC) : R12- Extremely flammable.

R66- Repeated exposure may cause skin dryness or cracking.

R53- May cause long-term adverse effects in the aquatic environment.

Continued on next page

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Korea inventory (KECI): Not determined.
Philippines inventory (PICCS): Not determined.
Japan inventory (ENCS): Not determined.

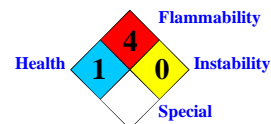
Section 16. Other information

Label Requirements : FLAMMABLE.
 Contains gas under pressure.
 Vapor may cause fire.
 Hot containers may explode.

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

Health	*	1
Fire hazard		4
Reactivity		0
Personal protection		C

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



References : Not available.

Other special considerations : Not available.

Date of printing : 22-8-2008.

Date of issue : 22-8-2008.

Date of previous issue : No previous validation.

Version : 1.01

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.