

SAFETY DATA SHEET

Hardwood garden furniture restorer

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

Identification of the substance or preparation

Product name : Hardwood garden furniture restorer
Product use : Has been developed especially for maintaining and protecting hardwood garden furniture.

Company/undertaking identification

Manufacturer : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700
Address : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744
 1332 EJ Almere **Internet:** : www.hginternational.com
Country : Netherlands
Importer : HG UK
Address : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate
 Uk Colchester Essex CO2 8HF
Telephone No.: : +44.1206.795.200
Fax : +44.1206.795.201
Country : United Kingdom (UK)

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
United Kingdom (UK) alkanes, c9-12-iso-	90622-57-4	292-459-0	30 - 100	Xn; R65 R66 R53
Butane	106-97-8	203-448-7	15 - 30	F+; R12
bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate,	125-12-2	204-727-6	1 - 5	Xi; R38
exo-cyclohexanol, 2-(1,1-dimethylethyl)-, acetate	88-41-5	201-828-7	0 - 1	Xi; R38 R52/53

See section 16 for the full text of the R Phrases declared above

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F+; 12
66
53

Physical/chemical hazards : Extremely flammable.

Human health hazards : Repeated exposure may cause skin dryness or cracking.

Environmental hazards : May cause long-term adverse effects in the aquatic environment.

Additional Hazards : Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.

See section 11 for more detailed information on health effects and symptoms.

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4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain 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.
- Skin Contact** : Wash with soap and water. Get medical attention if irritation develops.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
- Notes to physician** : Not available.
- Specific treatments** : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂).
- 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.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
 - Environmental precautions** : May cause long-term adverse effects in the aquatic environment.
 - Methods for cleaning up** : Provide adequate ventilation.
- Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Avoid contact of spilled material and runoff with soil and surface waterways. Provide adequate ventilation.
- Storage** : 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). Segregate from oxidising materials.
- Packaging materials**
- Recommended** : Use original container. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.
- Specific uses** : Not available.

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8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> Butane	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 1810 mg/m ³ 15 minute(s). Form: All forms STEL: 750 ppm 15 minute(s). Form: All forms TWA: 1450 mg/m ³ 8 hour(s). Form: All forms TWA: 600 ppm 8 hour(s). Form: All forms

Exposure controls

Occupational exposure controls

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

Respiratory protection

: Wear appropriate respirator when ventilation is inadequate. Be sure to use an approved/certified respirator or equivalent. Ventilation is normally required when handling or using this product.

Hand protection

: 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.
>8 hour(s) (breakthrough time): Butyl rubber gloves.

Eye protection

: splash goggles

Skin protection

: Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state

: Gas.

Colour

: Clear Yellow or brown. (Light.)

Odour

: Characteristic. (Slight.)

Important health, safety and environmental information

pH

: Not applicable.

Melting point

: -135.45°C (-211.8°F) based on data for: Butane. Weighted average: -153.27°C (-243.9°F)

Boiling point

: -44°C (-47.2°F)

Flash point

: Closed cup: <0°C (32°F).

Flammability (solid, gas)

: Extremely flammable gas.

Explosive properties

: Not available.

Explosion Limits

: 0.6 Vol %, 10.9 Vol %

Oxidising properties

: Not applicable

Relative density

: 0.718 g/cm³ (20°C / 68°F)

Solubility

: Insoluble in cold water, hot water.

Viscosity

: Dynamic: 20 cP

Other information

Auto-ignition temperature

: 365°C (689°F)

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10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : 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).
- Materials to avoid** : Extremely reactive or incompatible with oxidising agents.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

Potential acute health effects

- Inhalation** : Practically non-toxic by inhalation.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
alkanes, c9-12-iso-	LD50	>10000 mg/kg	Oral	Rat
	LD50	>3200 mg/kg	Dermal	Rabbit
bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-cyclohexanol, 2-(1,1-dimethylethyl)-, acetate	LD50	>3000 mg/kg	Dermal	Rabbit
	LD50	9050 mg/kg	Oral	Rat
	LD50	3100 mg/kg	Oral	Mouse
	LD50	4600 mg/kg	Oral	Rat

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: the nervous system, central nervous system (CNS).

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
alkanes, c9-12-iso-	Fish (LC50)	96 hour(s)	>100 mg/l

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

Other adverse effects

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13. Disposal considerations

- Methods of disposal** : 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 classification** : Not applicable.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1950	UN 1950, "dangerous goods in limited quantities of class 2", III, Aerosol, ADR (alkanes, c9-12-iso-)	2.1	III		Reportable quantity 30 Remarks Dangerous goods in limited quantities
ADN Class	1950	UN 1950, "dangerous goods in limited quantities of class 2", III, Aerosol, ADNR (alkanes, c9-12-iso-)	2.1	III		RQ (Reportable quantity) ADN 30 Remarks Dangerous goods in limited quantities
IMDG Class	1950	"dangerous goods in limited quantities of class 2" UN 1950, 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, Aerosol (alkanes, c9-12-iso-)	2.1	III		Remarks Dangerous goods in limited quantities

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15. Regulatory information

EU Regulations

Hazard symbol(s)

:



Extremely flammable

Risk Phrases

:

R12- Extremely flammable.
R66- Repeated exposure may cause skin dryness or cracking.
R53- May cause long-term adverse effects in the aquatic environment.

Safety Phrases

:

S2- Keep out of the reach of children.
S16- Keep away from sources of ignition - No smoking.
S23- Do not breathe spray.
S37- Wear suitable gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S51- Use only in well-ventilated areas.

Other EU regulations

:

Not available.

Product use

:

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications.

Other EU regulations

Additional warning phrases

:

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. - Do not smoke.

Tactile warning of danger

:

Yes, applicable.

EC Statistical classification

:

32089091

(Tariff Code)

Ingredients identification

:

30% and more: aliphatic hydrocarbons. less than 5%: perfumes.

information

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK)

:

R12- Extremely flammable.
R65- Harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53- May cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)

:

F+ - Extremely flammable
Xn - Harmful
Xi - Irritant

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Verified by T. Rutgers.

Notice to reader

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This safety data sheet is prepared in accordance with EU
directive 91/155/EC amended by Directive 2001/58/EC



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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.

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