



Material Safety Data Sheet



Chandelier spray cleaner

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 1670500
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.01
Country : Netherlands **Validation date** : 9-1-2008.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 9-1-2008.
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 : A fast working spray cleaner that cleans that cleans without difficult and messy cleaning by hand
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
Water	7732-18-5	75 - 100	Not available.
Ethanol	64-17-5	5 - 15	Not available.
d-glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	0 - 1	Not available.
Preservative.		0 - 0.05	Not available.
Nonionics		0 - 0.01	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : Warning!
FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Do not ingest. Avoid breathing vapor or mist. Avoid prolonged contact with eyes, skin, and clothing. If swallowed, seek medical advice immediately and show this container or label. Keep out of the reach of children.

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

Potential acute health effects
Eyes : This product may irritate eyes upon contact.
Skin : Can cause irritation.
Inhalation : Prolonged breathing can cause drowsiness and even unconsciousness.
Ingestion : No known significant effects or critical hazards.

Potential chronic health effects : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure: : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms : Not available.

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

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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: 370°C (698°F) (Ethanol).
- Flash Points** : Closed cup: 58°C (136.4°F). (Pensky-Martens.)
- Flammable limits** : Greatest known range: Lower: 3.4% Upper: 19% (Ethanol)
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂).
- 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 chemicals, or CO₂.
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** : No additional remark.
- 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. Avoid breathing vapor or mist. Avoid prolonged contact with eyes, skin, and clothing. If swallowed, seek medical advice immediately and show this container or label. Keep out of the reach of children.
- 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 : No special ventilation requirements.

Personal protection

Eyes : splash goggles

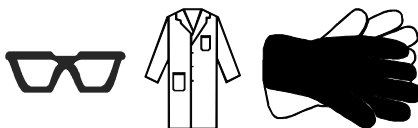
Skin : lab coat

Respiratory : Wear appropriate respirator when ventilation is inadequate.

Hands : 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 sufficient; consult a specialist BEFORE handling this product.

Product Name

Exposure limits

Ethanol

Not available.

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

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : Colorless. Clear

Odor : Perfumed

pH : 10.5 (Conc. (% w/w): 100) [Basic.]

Relative density : 0.987 g/cm³ (20°C / 68°F)

Viscosity : Not available.

Solubility : Easily soluble in the following materials: hot water, diethyl ether, acetone.
Soluble in the following materials: cold water.

Flash point : Closed cup: 58°C (136.4°F). (Pensky-Martens.)

Flammability (solid, gas) : Not applicable.

Explosive properties : Not available.

Explosion Limits : Greatest known range: Lower: 3.4% Upper: 19% (Ethanol)

Oxidizing properties : Not available.

Physical chemical comments : Solubility in other solvents: not soluble

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).

Incompatibility with various substances : Slightly reactive to reactive with acids.

Hazardous Decomposition Products : Not available.

Hazardous polymerization : Will not occur.

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Section 11. Toxicological information

Ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	3450 mg/kg	Oral	Mouse
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	15.8 mg/kg	Dermal	Rabbit
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
	LC50	64 (4 hour(s))	Inhalation	Rat
Nonionics	LD50	13792 mg/kg	Oral	Rat

Chronic effects on humans : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other toxic effects on humans : Hazardous by the following route of exposure: of ingestion.

Special remarks on toxicity to animals : No additional remark.

Special remarks on chronic effects on humans : No additional remark.

Special remarks on other toxic effects on humans : No additional remark.

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

Ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l
	Nonionics	FATHEAD MINNOWS (LC50)	96 hour(s)

BOD and COD : Not available.

Biodegradable/OECD : Biodegradable

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 products of degradation are less toxic than the product itself.

Special remarks on the products of biodegradation : No additional remark.

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.

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Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1993	UN 1993, FLAMMABLE LIQUID N.O.S. (Ethanol, 7%, Mixture), Class 3, PG III (Ethanol)	3	III		<p>Limited quantity Yes.</p> <p>Special provisions Limited Quantity</p> <p>Remarks ORM-D / CONSUMER COMMODITY</p>
TDG Classification	1993	UN 1993, FLAMMABLE LIQUID N.O.S. (Ethanol, 7%, mixture), Class 3, PG III (Ethanol)	3	III		<p>Special provisions Limited Quantity</p> <p>Remarks ORM-D / CONSUMER COMMODITY</p>
ADR/RID Class	1993	UN 1993, "dangerous goods in limited quantities of class 3", III, ADR (Ethanol)	3	III		<p>Hazard identification number 30</p> <p>Reportable quantity 45</p> <p>Remarks Limited quantity for upto 5 litre inner packing</p>
IMDG Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG III, (Ethanol)	3	III		<p>Emergency schedules (EmS) F-E, S-E</p> <p>Reportable quantity 30</p> <p>Remarks Limited quantity for upto 5 litre inner packing</p>
IATA-DGR Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG III, (Ethanol)	3	III		-

Section 15. Regulatory information

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
No products were found.

International regulations

EINECS : Not available.

DSCL (EEC) : This product is not classified according to the EU regulations.

International lists :

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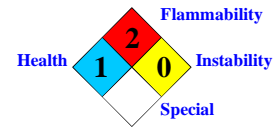
Section 16. Other information

Label Requirements : FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.

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

Health	1
Fire hazard	2
Reactivity	0
Personal protection	C

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



References : Not available.

Other special considerations : Not available.

Date of printing : 9-1-2008.

Date of issue : 9-1-2008.

Date of previous issue : No previous validation.

Version : 2.01

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.