



Material Safety Data Sheet



Ceramic hob thorough cleaner

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 1020256
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.03
Country : Netherlands **Validation date** : 9-5-2011.
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Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada
Material uses : Cleaner.
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
Calcined Alumina	1344-28-1	30 - 100	Not available.
Ethanol	64-17-5	1 - 5	Not available.
citric acid, monohydrate	5949-29-1	1 - 5	Not available.
attapulgate	12174-11-7	1 - 5	Not available.
white mineral oil, petroleum	8042-47-5	1 - 5	Not available.
siloxanes and silicones, di-me, me	68037-64-9	1 - 5	Not available.
hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether			
silica, crystalline - quartz	14808-60-7	0 - 1	Not available.
alcohols, c9-16, ethoxylated	97043-91-9	<0.1	Not available.
(R)-p-Mentha-1,8-diene	5989-27-5	0.05-1	Not available.
Preservative.		0.01-0.1 1 - 5	Not available. Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview :

No specific hazard.

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Risk of cancer depends on duration and level of exposure.

Routes of entry : Dermal contact. Eye contact. 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.

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Potential chronic health effects	: CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Calcined Alumina]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified 2B (Possible for human.) by IARC [attapulgit]. Classified 1 (Known To Be Human Carcinogens.) by NTP, + (Proven.) by NIOSH [silica, crystalline - quartz]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [silica, crystalline - quartz]. 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)	

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	: Combustible.
Auto-ignition Temperature	: Lowest known value: 350°C (662°F) (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether).
Flash Points	: Closed cup: Between 61°C (142°F) and 93.3°C (200°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, CO ₂). Some metallic oxides.
Fire hazards in presence of various substances	: Not available.
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 CO ₂ . Combustible 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	: No additional remark.

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.

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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).

Section 8. Exposure Controls, Personal Protection

Engineering controls : No special ventilation requirements.

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.

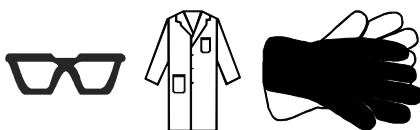
Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

Calcined Alumina
Ethanol
silica, crystalline - quartz

Exposure limits

Not available.
Not available.
Not available.

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

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : White.

Odor : Characteristic.

pH : Acidic.

Relative density : 1.3 to 1.35 g/cm³ (20°C / 68°F)

Viscosity : Dynamic: Highest known value: 873 cP (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether)
Kinematic (40C): Highest known value: 18.43 cSt (white mineral oil, petroleum)

Solubility : Soluble in the following materials: cold water, hot water.

Flash point : Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)

Explosive properties : Not available.

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

Oxidizing properties : Not applicable

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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).

Incompatibility with various substances : Not available.

Hazardous Decomposition Products : Not available.

Hazardous polymerization : Will not occur.

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
citric acid, monohydrate	LD50	>6730 mg/kg	Oral	Rat
	LD50	>5400 mg/kg	Oral	Mouse
	LD50	>7000 mg/kg	Oral	Rabbit
	LD50	11700 mg/kg	Dermal	Rat

Chronic effects on humans : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH [Calcined Alumina]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified 2B (Possible for human.) by IARC [attapulgit]. Classified 1 (Known To Be Human Carcinogens.) by NTP, + (Proven.) by NIOSH [silica, crystalline - quartz]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [silica, crystalline - quartz].
Contains material which causes damage to the following organs: blood, lungs, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other toxic effects on humans : Non-irritant for skin. Non-irritating to the eyes.

Special remarks on toxicity to animals : Very low toxicity for humans or animals. (Preservative.)

Special remarks on chronic effects on humans : Not available.

Special remarks on other toxic effects on humans : Not available.

Specific effects

Carcinogenic effects : Contains material which can cause cancer.. Risk of cancer depends on duration and level of exposure.

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
	citric acid, monohydrate	DAPHNIA MAGNA (LC50)	48 hour(s)
Algae (LC50)		48 hour(s)	80 to 640 mg/l
Goldfish (LC50)		48 hour(s)	625 mg/l

BOD and COD : Not available.

Biodegradable/OECD : Readily biodegradable

Mobility : Not available.

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- Products of degradation** : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and water. Some metallic oxides.
- Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.
- Special remarks on the products of biodegradation** : Readily biodegradable

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	Not regulated.	-	-	-		Remarks Keep in frostfree area
TDG Classification	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

Section 15. Regulatory information

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).
CEPA DSL: Water; Alcohols, C16-22., ethoxylated.; siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether; white mineral oil, petroleum; Methanol; Calcined Alumina; silica, crystalline - quartz; magnesium oxide; (R)-p-Mentha-1,8-diene
CEPA NDSL: alcohols, c9-16, ethoxylated

International regulations

- EINECS** : Not available.
- DSCL (EEC)** : This product is not classified according to the EU regulations.
- International lists** :

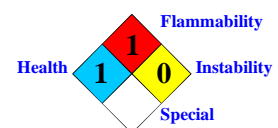
Section 16. Other information

- Label Requirements** : No specific hazard.

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

Health	1
Fire hazard	1
Reactivity	0
Personal protection	C

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



- References** : Not available.
- Other special considerations** : Not available.

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Notice to reader

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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.