# **Material Safety Data Sheet**

# HĠ

# HG extreme power cleaner (HG product 20)

# 1. Product and company identification

Product name : HG extreme power cleaner (HG product 20)

Pinnacle Home Solutions LLC 8711 E Pinnacle Peak Road

Scottsdale AZ 85255

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Tel 1.480.513.1317

Synonym

Manufacturer : HG International BV

Damsluisweg 70 - NL-1332 EJ - Almere - The Netherlands

+31 36 54 94 700

**Code** : 435

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Validation date : 16-1-2013.

Print date : 16-1-2013.

<u>In case of emergency</u> : +31 (0)36 54 94 777

Product type : Liquid.

### 2. Hazards identification

**Emergency overview** 

Physical state : Liquid.

Color : Colorless.

Odor : Characteristic.

Signal word : WARNING!

Hazard statements : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA.

**Precautionary measures**: Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using

this product. Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion**: Harmful if swallowed.

**Skin** : Severely irritating to the skin.

**Eyes** : Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### 2. Hazards identification

**Target organs** 

: Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.

**Skin**: Adverse symptoms may include the following:

irritation redness

**Eyes**: Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

# 3. Composition/information on ingredients

Name	CAS number	%
sodium hydroxide	112-34-5 1310-73-2	10 - 20 1 - 5
Silicic acid (H2SiO3), disodium salt, pentahydrate	10213-79-3	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

Eye contact :

Inhalation

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

shoes thoroughly before reuse. Get medical attention immediately.

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

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# 5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: 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.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

**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** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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# 8. Exposure controls/personal protection

Ingredient	Exposure limits		
sodium hydroxide	ACGIH TLV (United States, 3/2012).  C: 2 mg/m³  NIOSH REL (United States, 6/2009).  CEIL: 2 mg/m³  OSHA PEL (United States, 6/2010).  TWA: 2 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).		
	CEIL: 2 mg/m³		

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **Engineering measures**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal protection**

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 complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### 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.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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# 9. Physical and chemical properties

Physical state : Liquid.

Color : Colorless.

Odor : Characteristic.

**pH** : 13,8 [Conc. (% w/w): 100%]

**Boiling/condensation point** : 100°C (212°F) **Melting/freezing point** : -3,62°C (25,5°F)

Relative density : 1,047

**Evaporation rate** : 0,003 (Butylacetaat = 1)

**Solubility** : Easily soluble in the following materials: cold water, hot water, methanol, diethyl ether

and acetone.

# 10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials:

acids

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

# 11. Toxicological information

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
, , , , , , , , , , , , , , , , , , , ,	LD50 Dermal LD50 Oral LD50 Oral	Rat	2700 mg/kg 4500 mg/kg 847 mg/kg	-

**Conclusion/Summary**: Not available.

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanol, 2-(2-butoxyethoxy)-	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	_
sodium hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	24 hours 1 milligrams	-
	Eyes - Severe irritant	Rabbit	-	0,5 minutes 1 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 2 Percent	-
	Skin - Severe irritant	Rabbit	-	24 hours 500	-

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# 11. Toxicological information

milligrams

**Conclusion/Summary** 

<u>Sensitizer</u>

: Not available.

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not applicable.

**Mutagenicity** 

**Conclusion/Summary** 

: Not applicable.

**Teratogenicity** 

**Conclusion/Summary** 

: Not applicable.

Reproductive toxicity
Conclusion/Summary

: Not applicable.

# 12. Ecological information

**Ecotoxicity** : Readily biodegradable

### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Ethanol, 2-(2-butoxyethoxy)-sodium hydroxide	Acute LC50 1300000 µg/l Fresh water Acute EC50 40,38 mg/l Fresh water	Fish - Lepomis macrochirus Crustaceans - Ceriodaphnia	96 hours 48 hours
	Acute LC50 125000 μg/l Fresh water	dubia - Neonate Fish - Gambusia affinis - Adult	96 hours

**Conclusion/Summary** 

: Readily biodegradable

Persistence/degradability
Conclusion/Summary

: Readily biodegradable

Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

### Waste disposal

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

for additional handling information and protection of employees.

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# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group

# 15. Regulatory information

**HCS Classification** : Irritating material

Target organ effects

**U.S. Federal regulations** : TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: sodium hydroxide; Ethanol, 2-

(2-butoxyethoxy)-

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: sodium hydroxide: Immediate (acute) health hazard; Ethanol, 2-(2-butoxyethoxy)-: Fire hazard, Immediate (acute) health hazard

Clean Water Act (CWA) 311: sodium hydroxide

Clean Air Act Section 112 : Listed

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602 : Not listed

**Class II Substances** 

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

#### **SARA 313**

	Product name	CAS number	Concentration
Form R - Reporting requirements	Ethanol, 2-(2-butoxyethoxy)-	112-34-5	10 - 20
Supplier notification	Ethanol, 2-(2-butoxyethoxy)-	112-34-5	10 - 20

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# 15. Regulatory information

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

Massachusetts : The following components are listed: SODIUM HYDROXIDE

**New York** : The following components are listed: Sodium hydroxide

New Jersey : The following components are listed: GLYCOL ETHERS; SODIUM HYDROXIDE;

CAUSTIC SODA

Pennsylvania: The following components are listed: GLYCOL ETHERS; SODIUM HYDROXIDE (NA

(OH))

Canada inventory

**International regulations** 

International lists : Australia inventory (AICS): All components are listed or exempted.

: All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

**Korea inventory**: All components are listed or exempted. **Malaysia Inventory (EHS Register)**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Chemical Weapons

**Convention List Schedule** 

**I Chemicals** 

: Not listed

**Chemical Weapons** 

**Convention List Schedule** 

**II Chemicals** 

Chemical Weapons

**Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

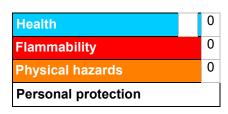
### 16. Other information

Label requirements : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA.

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



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The customer is responsible for determining the PPE code for this material.

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

### 16. Other information



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#### **Notice to reader**

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**16-1-2013**. **9/**!