# **Material Safety Data Sheet**



# **HG** quick descaler

# 1. Product and company identification

Product name : HG quick descaler

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Manufacturer : HG International BV

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**Code** : 174

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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 : Red. [Dark]

Odor : Characteristic.

Signal word : CAUTION!

Hazard statements : MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE

TARGET ORGAN DAMAGE.

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

this product. 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 : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

SkinSeverely corrosive to the skin. Causes severe burns.EyesSeverely corrosive to the eyes. Causes severe burns.

Potential chronic health effects

**Chronic effects** : Contains material that can cause target organ damage.

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.

Target organs : Contains material which causes damage to the following organs: kidneys,

gastrointestinal tract.

#### Over-exposure signs/symptoms

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### 2. Hazards identification

Inhalation : No specific data.

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

stomach pains

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

pain or irritation

redness

blistering may occur

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

pain watering redness

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.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
hydroxyacetic acid	79-14-1	10 - 20

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**: 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.

Inhalation : 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. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

### 5. Fire-fighting measures

Flammability of the product

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.

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### 5. Fire-fighting measures

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

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). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. 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 get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. 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 alkalis. 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

#### Consult local authorities for acceptable exposure limits.

# 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**

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### 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.

### 9. Physical and chemical properties

Physical state : Liquid.

Flash point : [Product does not sustain combustion.]

Color: Red. [Dark]Odor: Characteristic.

pH : 1,6 Relative density : 1,04

**Solubility** : Easily soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

**Chemical stability** : The product is stable. **Conditions to avoid** No specific data.

Incompatible materials : Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

**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
hydroxyacetic acid	LD50 Oral	Rat	1950 mg/kg	-

Conclusion/Summary

: Not available.

**Chronic toxicity** 

**Conclusion/Summary** 

: Not available.

**Irritation/Corrosion** 

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

**Conclusion/Summary** 

Carcinogenicity

: Not available.

**Conclusion/Summary** 

**Mutagenicity** 

: Not available.

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

**Conclusion/Summary** 

Not available.

Reproductive toxicity

Conclusion/Summary

Not available.

## 12. Ecological information

**Ecotoxicity** : Readily biodegradable

**Aquatic ecotoxicity** 

**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

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# 13. Disposal considerations

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.

### 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III	ORROSHE 8	-
TDG Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III	***	-
Mexico Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III		-
ADR/RID Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III		Hazard identification number 80  Limited quantity 5 L  Tunnel code (E)
IMDG Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Emergency schedules (EmS) F-A, S-B
IATA-DGR Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (D-Gluconic acid, hydroxyacetic acid)	8	III	***	-

PG\* : Packing group

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## 15. Regulatory information

**HCS Classification** 

: 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: Glycolic acid 70%

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Glycolic acid 70%: Immediate (acute) health hazard

Clean Air Act Section 112 : Not 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)

State regulations

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. **Pennsylvania** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

**International regulations** 

International lists

: Australia inventory (AICS): 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): Not determined. **Philippines inventory (PICCS)**: All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

: Not listed

**Chemical Weapons Convention List Schedule** 

II Chemicals

: Not listed

**Chemical Weapons Convention List Schedule** 

**III Chemicals** 

: Not listed

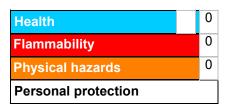
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### 16. Other information

Label requirements

: MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

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



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**Date of previous issue** : No previous validation.

Version : 1

Prepared by : Not available.

Indicates information that has changed from previously issued version.

#### 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.

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