

Safety data sheet	Page: 1 of 9
	Issue date: 15-02-2021
Descaler Powder	
	According to: Regulation (EC) 1907/2006

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : Descaler Powder
 Synonyms : Art. 976777
 Unique formula identifier (UFI) : 441X-W8A2-R004-07W0

1.2 Relevant identified uses and uses advised against

Relevant identified uses : Professional descaling agent.
 Uses advised against : No information available.

1.3 Details of the supplier of the safety data sheet

Supplier : Hendi BV, Innovatielaan 6, 6745 XW De Klomp, The Netherlands
 tel: +31 (0)317 681040
 info@hendi.eu
 www.hendi.eu

1.4 Emergency telephone number : +49(0)160-92250872

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture CLP Regulation (EC 1272/2008)

Hazard categories:
 Skin corrosion/irritation: Skin Irrit. 2
 Serious eye damage/eye irritation: Eye Irrit. 2
 Hazardous to the aquatic environment: Aquatic Chronic 3
 Hazard Statements:
 Causes serious eye irritation.
 Causes skin irritation.
 Harmful to aquatic life with long lasting effects.

2.2 Label elements

CLP Regulation (EC 1272/2008)
 Pictogram(s) : GHS07



Signal word : Warning

Hazard statement(s) : H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s) : P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P273 Avoid release to the environment.
 P280 Wear protective gloves and eye/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302+P352 IF ON SKIN: Wash with plenty of water.

- 2.3 Other hazards** : Further Information: Labelling for contents according to regulation (EC) No. 648/2004
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance** : Not relevant

3.2 Mixture:

Chemical name	CAS number	EC number Index nr	Registration nr	%	Hazard statements
Sulphamic Acid	5329-14-6	226-218-8 016-026-00-0	-	> 30	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H315 H319 H412

Full text of H and EUH statements: see section 16.

SECTION 4. FIRST AID MEASURES
4.1 Description of first aid measures

- General : Remove contaminated, saturated clothing immediately.
 Inhalation : Following inhalation: Move victim to fresh air. Consult physician.
 Contact with skin : After contact with skin, wash immediately with: Water and soap. Take off immediately all contaminated clothing.
 Contact with eyes : If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.
 Ingestion : Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES
5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet / Foam / Carbon dioxide (CO₂) / Dry extinguishing powder / Extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.
 Unsuitable extinguishing media : Full water jet.

5.2 Special hazards arising from the substance or mixture

- : In case of fire may be liberated:
 Gas/vapours, harmful.
 Gas/vapours, irritant.

5.3 Advice for firefighters

- : In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.
Additional information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment & emergency procedures:** Put on protection equipment and keep away unprotected persons.
- 6.2 Environmental precautions** : Do not allow to enter into surface water or drains.
- 6.3 Methods and material for containment and cleaning up** : Clean contaminated articles and floor according to the environmental legislation. Take up mechanically.
- 6.4 Reference to other sections** : For handling and storage – section 7.
 For personal protection - section 8.
 Disposal - section 13

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : Advice on safe handling: Avoid contact with skin and eyes. When using do not eat, drink or smoke. Do not breathe dust. Wash hands before breaks and after work.
Advice on protection against fire and explosion: No special precautionary measures are necessary.
Further information on handling: Keep only in the original container.
- 7.2 Conditions for safe storage** : Requirements for storage rooms and vessels: Keep only in the original container.
- 7.3 Specific end use(s)** : DESCALERS

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters

Additional advice on limit values: To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

Do not eat, drink, smoke or snort at the workplace.

Keep away from: foodstuffs, animal feed.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374 Suitable material: PE (polyethylene). NBR (Nitrile rubber).

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Body protection: not required.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour:	white
Odour:	characteristic
pH-Value (at 20°C):	1 (10%)

Changes in the physical state

Melting point:	not relevant
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not relevant
Flash point:	not applicable

Flammability

Solid:	not relevant
Gas:	not relevant

Explosive properties:	not explosive
Lower explosion limits:	not relevant
Upper explosion limits:	not relevant
Ignition temperature:	not relevant

Auto-ignition temperature

Solid:	not relevant
Gas:	not relevant
Decomposition temperature:	not relevant

Oxidizing properties:	not oxidizing
Vapour pressure:	not determined
Density (at 20°C):	1,04 g/cm ³
Bulk density:	not relevant
Water solubility:	easily soluble

Solubility in other solvents:	not determined
Partition coefficient:	not relevant
Viscosity / dynamic:	not relevant
Viscosity / kinematic:	not relevant
Flow time:	not relevant
Vapour density:	not relevant
Evaporation rate:	not relevant
Solvent separation test:	not relevant
Solvent content:	not relevant

9.2. Other information

Solid content: not relevant

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : The product develops hydrogen in an aqueous solution in contact with metals. May be corrosive to metals.
- 10.2 Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3 Possibility of hazardous reactions** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.4 Conditions to avoid** : Protect from moisture.
- 10.5 Incompatible materials** : Reacts with: Alkalis (alkalis).
- 10.6 Hazardous decomposition products:** Thermal decomposition can lead to the escape of irritating gases and vapours. Nitrogen oxides (NOx). Sulfur Oxides.

SECTION 11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Toxicokinetic, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met..

Chemical name Exposure route	CAS number	Dose	Species	Source
Sulphamic Acid oral	5329-14-6	LD50 3160 mg/kg	Rat	

Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

TOT- single exposure

Based on available data, the classification criteria are not met.

STOT- repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : No data available

Chemical name Aquatic toxicity	CAS number	Dose	[h] [d]	Species	Source
Sulphamic Acid	5329-14-6				
Acute fish toxicity		LC50 70,3 mg/l	96 h	Pimephales promelas	

12.2 Persistence and degradability : No data available.

12.3 Bio accumulative potential : No information available.

12.4 Mobility in soil : No data available.

12.5 Results of PBT & vPvB assessment : The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6. Other adverse effects : No information available.

Further information: On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods :

Disposal recommendations

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

060106 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; other acids; hazardous waste

List of Wastes Code - used product

060106 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; other acids; hazardous waste

List of Wastes Code - contaminated packaging

060106 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; other acids; hazardous waste

Contaminated packaging

Contaminated packaging: Completely emptied packings can be re-cycled.

SECTION 14. TRANSPORT INFORMATION
Land transport (ADR/RID)

- 14.1. UN number: UN 2967
 14.2. UN proper shipping name: SULPHAMIC ACID
 14.3. Transport hazard class(es): 8
 14.4. Packing group: III

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 1907/2006

Hazard label: 8
 Classification code: C2
 Limited quantity: 5 kg
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E


Inland waterways transport (ADN)

14.1. UN number: UN 2967
 14.2. UN proper shipping name: SULPHAMIC ACID
 14.3. Transport hazard class(es): 8
 14.4. Packing group: III



Hazard label: 8
 Classification code: C2
 Limited quantity: 5 kg
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 2967
 14.2. UN proper shipping name: SULPHAMIC ACID
 14.3. Transport hazard class(es): 8
 14.4. Packing group: III



Hazard label: 8
 Special Provisions: -
 Limited quantity: 5 kg
 Excepted quantity: E1
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2967
 14.2. UN proper shipping name: SULPHAMIC ACID
 14.3. Transport hazard class(es): 8
 14.4. Packing group: III



Hazard label: 8
 Special Provisions: A803
 Limited quantity Passenger: 5 kg

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Passenger LQ:	Y845
Excepted quantity:	E1
IATA-packing instructions - Passenger:	860
IATA-max. quantity - Passenger:	25 kg
IATA-packing instructions - Cargo:	864
IATA-max. quantity - Cargo:	100 kg

14.5. Environmental hazards
 Environmentally hazardous: No

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):
 Entry 3

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]
 Classification according to Regulation (EC) No 1272/2008 [CLP]

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16. OTHER INFORMATION

16.1 Revision comments

A vertical line in the left margin indicates that there is a relevant amendment from the previous version.

16.2 Abbreviations and acronyms used in the safety data sheet

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

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16.3 References and sources for data : Safety data sheet manufacturer

16.4 Training advice

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

16.5 Other information and disclaimer

All information given in this Safety Data Sheet is exclusively related to the product described and is provided assuming that the product will be used in a way and for the purposes as stated by the manufacturer. The information is based on our present state of knowledge and will be reviewed regularly. This Safety Data Sheet has only been set up with the intention to describe the safety aspects of the product and therefore should not be construed as guaranteeing specific properties of the product of concern or its suitability for a particular application. It is the user's own responsibility to take the precautionary measures described and also to take care that this information is complete and adequate for the use of this product. It is recommended to pass through the information in this Safety Data Sheet, whenever necessary in an adapted form, to all staff and interested parties of concern.

- *Changes, printing and typesetting errors reserved.*