

Descaler concentrate

Issue date: 15-02-2021

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

1.1 Product identifier

Trade name Synonyms	: Descaler concentrate : Art. 976760
Unique formula identifier (UFI)	: W86X-88QW-300T-QQUV
1.2 Delevent identified uses and use	a advised analyse

1.2 Relevant identified uses and i	uses advised against
Relevant identified uses	: Detergent
Uses advised against	: No information available.

1.3 Details of the supplier of the safety data sheet Supplier : Hendi BV, Innova

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-1

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:
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Causes serious eye irritation.

2.2 Label elements

CLP Regulation (EC 1272/2008)

Pictogram(s)



Signal word	: <u>Warning</u>
Hazard statement(s)	: H319 Causes serious eye irritation.
Precautionary statement(s)	 P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
2.3 Other hazards	 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



Descaler concentrate

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
Citric acid monohydrate	5949-29-1	201-069-1	-	15-30	Eye Irrit. 2; H319
2-Propyn-1-ol, compd. with methyloxirane	38172-91-7	609-530-2	01-2119976291- 33	1 - < 5	Acute Tox. 4, Eye Dam. 1; H302 H318
L-(+)-Lactic Acid	79-33-4	201-196-2	01-2119474164- 39	< 1	Skin Irrit. 2, Eye Dam. 1; H315 H318

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

Specific concentration limits and M-factors

Chemical name	CAS number	EC number	%	Specific concentration limits and M-factors
L-(+)-Lactic Acid	79-33-4	201-196-2	< 1	Skin Irrit. 2; H315: >= 10 - 100 Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= 1 - < 3

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures	
General	: Remove contaminated, saturated clothing immediately. Avoid contact with skin, eyes and clothes.
Inhalation	 Provide fresh air. Seek medical attention if problems persist. If victim is at risk of losing consciousness, position and transport on their side and consult a doctor
Contact with skin	: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water. In case of skin irritation, seek medical treatment.
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). Seek medical attention immediately.

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 Symptomatic treatment (decontamination, vital functions), no known specific antidote.

SECTION 5. FIREFIGHTING MEASURES

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

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Tools for Chefs	Descaler concentrate	According: Regulation (EC) 1907/2006
5.2 Special hazards arising from the substance or mixture	: Hazardous combustion products: Carbo monoxide, nitrogen oxide (NOx).	on dioxide (CO2), carbon
5.3 Advice for firefighters	: In case of fire: Wear self-contained bre protection suit. Do not breathe explosic vapors / fog with water spray. Additional information: Contaminated collected separately. This may not end water stream. Waste processing accord legislation.	on and fire gases. Resume gases d fire-fighting water must be up in the sewer system or waste
SECTION 6. ACCIDENTAL RELEAS	SE MEASURES	
6.1 Personal precautions, protective equipment & emergency procedu	ires: Put on protection equipment and keep contact with skin and eyes.	away unprotected persons. Avoid
6.2 Environmental precautions	: Larger quantities cannot be emptied int	o drains or the environment.
6.3 Methods and material for containment and cleaning up	: Absorb with liquid-binding material (e.g or universal binding agents).	. sand, diatomaceous earth, acid-
6.4 Reference to other sections	: For handling and storage – section 7. For personal protection - section 8.	

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling	: <u>Advice on safe handling</u> : Avoid contact with skin and eyes. <u>Advice on protection against fire and explosion</u> : No special precautionary measures are necessary. <u>Further information on handling</u> : Notice the directions for use on the label.
7.2 Conditions for safe storage	: Requirements for storage rooms and vessels: Store only in original container. Unsuitable materials for container: metal. Information regarding storage with other substances or preparations: Keep away from: food, drink, animal feed.
7.3. Specific end use(s)	: DESCALERS

Disposal - section 13

7.3 Specific end use(s) : 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

Protective and hygiene measures

Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing. Wash hands before breaks and after work. Keep away from: food, beverages, feeding stuff.

Eye/face protection

Suitable eye protection: During filling or decanting.

Hand protection

Tested protective gloves are to be worn: Suitable material: PVC (Polyvinyl chloride). NR (Natural rubber (Caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). FKM (fluororubber). Breakthrough times and swelling characteristics of the material must be taken into consideration.



Skin protection

Wear suitable protective clothing.

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: Colour: Odour: pH-Value (at 20°C):	liquid colourless characteristic 0,36
Changes in the physical state Melting point: Initial boiling point and boiling range: Sublimation point: Softening point: Flash point:	not determined not determined not determined not determined not determined
Flammability Solid: Gas: Lower explosion limits: Upper explosion limits: Ignition temperature:	not determined not determined not determined not determined not determined
Auto-ignition temperature Solid: Gas:	not determined not determined
Vapour pressure: Density (at 20°C): Partition coefficient: Viscosity / dynamic: Viscosity / kinematic: Flow time: Vapour density: Evaporation rate: Solvent separation test: Solvent content:	not determined 1,128 g/cm ³ not determined not determined not determined not determined not determined not determined not determined

9.2. Other information

Solid content: not determined.

SECTION 10. STABILITY AND REACTIVITY				
10.1 Reactivity	: When handled and stored in accordance with the regulations, no dangerous reactions occur.			
10.2 Chemical stability	 The product is chemically stable under recommended conditions of storage, use and temperature. 			
10.3 Possibility of hazardous rea	actions: When handled and stored in accordance with the regulations, no dangerous reactions occur.			



10.4 Conditions to avoid :	Protect against: frost.
10.5 Incompatible materials :	When handled and stored in accordance with the regulations, no dangerous reactions occur.
10.6 Hazardous decomposition products:	The product is chemically stable under recommended conditions of storage, use and temperature.

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. There are no data on the preparation itself.

Chemical name Exposure route	CAS number	Dose	Speci es	Source	Method
2-Propyn-1-ol, compd. with methyloxirane	38172-91-7				
oral		ATE 500 mg/kg			
L-(+)-Lactic Acid	79-33-4				
oraal		LD50 3543 mg/kg	Rat	ECHA	OECD 401
dermaal		LD 50 > 2000 mg/kg	Rabbit	ECHA	

Irritation and corrosivity

Causes serious eye irritation. Skin corrosion/irritation: Based on available data, the classification criteria are not met. Irritant effect on the eye: Irritant. Irritant effect on the skin: irritant.

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

There are no data on the preparation itself.



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SECTION 12. ECOLOGICAL INFORMATION

12.1	Тох	icity

: No data available

Chemical name Aquatic toxicity	CAS number	Dose	[h] [d]	Species	Source	Method
L-(+)-Lactic Acid	79-33-4					
Acute fish toxicity		LC50 320 mg/l	96 h	Brachydanio rerio	MSDS	OECD 203
Acute algae toxicity		ErC50 3500 mg/l	72 h	Pseudokirchneri ella subcapitata		OECD 201
Acute crustacea toxicity		EC50 250 mg/l	48 h	Daphnia magna	MSDS	OECD 202
Algae toxicity		NOEC 1900 mg/l	3 d		ECHA	
Crustacea toxicity		NOEC 180 mg/l	2 d		ECHA	

12.2 Persistence and degradability

: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. The product doesn't contribute to the AOX value of the water.

12.3 Bio accumulative potential

: No data available.

Partition coefficient n-octanol/water

Chemical name	CAS number	Log Pow
L-(+)-Lactic Acid	79-33-4	-0,62

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 data available.

Further information: Avoid release to the environment.

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.

:

Contaminated packaging

Completely emptied packings can be re-cycled.



According: Regulation (EC) 1907/2006

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID) 14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation.
Inland waterways transport (ADN)	
14.1. UN number:	No dangerous good in sense of these transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulation.

14.4. Packing group:

Marine transport (IMDG)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation. No dangerous good in sense of these transport regulation.

No dangerous good in sense of these transport regulation.

No dangerous good in sense of these transport regulation.

No dangerous good in sense of these transport regulation.

No dangerous good in sense of these transport regulation.

No dangerous good in sense of these transport regulation.

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

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)

National regulatory information

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been 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.



Issue date: 15-02-2021

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)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.

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