

Fresh in water since 1906.

Material Safety Datasheet

HADEX® Food Grade Drinking Water Disinfectant

According to EC-directive 1907/2006

Revision: 16.0

Contents

Mate	erial Safety Data Sheet	3
1	Identification of the Product and the Company	
	Identification of the Product	
	Identification of the Company	
	Emergency Numbers	
2	Hazards Identification	.4
	Hazards to Humans	.4
3	Composition/Information Active Ingredients	. 5
	Composition	. 5
4	First Aid Measures	.6
5	Fire-Fighting Measures	.6
6	Accidental Release Measures	.6
7	Handling and Storage	.6
8	Exposure Controls/Personal Protection	. 7
	Exposure Controls	
	Personal Protection	. 7
9	Physical and Chemical Properties	. 7
	Stability and Reactivity	
11	Toxicological Information	.8
12	Ecological Information	.8
13	Disposal Considerations	.8
14	Transport Information	.9
	Land transport	
	Sea transport	
	Air transport	
	Regulatory Information	
16	Other Information	11

Print date: 08/01/2013 Compile date: September 2011



Material Safety Data Sheet

1 Identification of the Product and the Company

Identification of the Product

Product label name: Hadex®

Chemical description/application: Hadex Food Grade drink water disinfectant, disinfection of piping, water tanks

water fed plants.

Product type: Liquid

Identification of the Company

Company: Hatenboer-Water b.v.

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Emergency Numbers

In Case of emergency: Nationaal Vergiftigingen Informatie Centrum (National Poisoning Information Center)

Tel.: +31 (0)30 274 88 88

(Only for medical advice in case of poisoning)

Police, Fire and

Ambulance:

Tel.: 112 (in the Netherlands)

Print date: 8/1/2013 Revision: 16.0 Compile date: September 2011 Page 3 of 11

2 Hazards Identification

Hazards to Humans

Classification according to Directive 67/548/EEC or 1999/45

• Dangerous for the environment (N, R50), Irritant (Xi, R41), irritating (Xi, R38)

Hazard Class and Category Code Ordinances EC 1272/2008

Classification in accordance with Regulation (EC) No 1272/2008

- Dangerous Category 1 Warning (H400)
- Serious damage to eyes Category 1 Danger (H318)
- Irritant-category 2 (H315)

label elements

Labelling Regulation EC 1272/2008 (CLP)

Hazards Symbols





Signal word: Danger

Hazard statements: H315: Causes skin irritation.

H318: Causes serious eye damage. H400: Very toxic to aquatic life.

Revision: 16.0 Print date: 08/01/2013
Page 4 of 11 Compile date: September 2011



Precautions statements: P102: Keep out of reach of children.

P403/P235: Store in a well ventilated area / cool place.

P273: Avoid release to the environment.

P501: Contents / box drains to local /

regional / national / international regulations.

P391: Leaked / spill clean up.

P280: Wear protective gloves / protective

clothing / eye / face protection.

P302 + P352: IF ON SKIN: Wash with soap and water. "

P332 + P313: If skin irritation occure:get medical advice/attention. "

P362 Take off contaminated clothing and wash before reuse

P305 + P351: IF IN EYES: Rinse with water for continuously several minutes, remove contact lenses if

present and easy to do continuous rinsing.

P310: Call a POISON CENTER or doctor.

Labelling EC 67/548 or EC1999/45

Symbols:





Xi; Irritant

N, Dangerous for the environment

3 Composition/Information Active Ingredients

Composition

	CHEMICAL NAME	CAS-NR	EEC-NR	ANNEX-1-NR	SYMBOL	%	H-PHRASE(S)
						(W/W)	
1	Sodium hypochlorite	7681-52-9	231-668-3	017-011-00-1	N + C	4.4	H400
							H315
							H318
							EUH031

For complete text of H-phrase(s): see Regulatory Information (page 10).

Print date: 8/1/2013 Revision: 16.0 Compile date: September 2011 Page 5 of 11

4 First Aid Measures

General: In all cases of doubt, or when symptoms persists, seek medical attention

After eye contact: Rinse thoroughly with plenty of water. Eyelids should be held away from the

eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

After skin contact: Wash off with soap and water

After inhalation: N.A.

After ingestion: Only when conscious, rinse mouth, give plenty of water to drink (approx. 500

ml.). Do not induce vomiting. Seek medical attention.

Advice for doctors: Symptomatic treatment is advised

5 Fire-Fighting Measures

Hazardous combustion products: In contact with heavy metals, their compounds and their alloys, sodium

hypochlorite decomposes under the development of oxygen

Fire/explosion hazards: If involved in a fire, it will support combustion

Extinguishing media: All media

6 Accidental Release Measures

Containment technique: Do not empty into environment.

Clean-up technique: Collect as much as possible in a clean container for re-use or disposal. Rinse

remaining chemical with plenty of water.

7 Handling and Storage

Handling: The usual precautions for handling chemicals should be observed

Storage: Do not store with acids, reducing agents and flammable substances.

Store in a dry well ventilated place away from sources of heat and directs

sunlight.

Fire & explosion prevention: Keep away from combustible material.

Revision: 16.0 Print date: 08/01/2013
Page 6 of 11 Compile date: September 2011



Exposure Controls/Personal Protection

Exposure Controls

Exposure limits: No exposure limit has been established

Personal Protection

Skin protection: The usual precautions for handling chemicals should be observed

The usual precautions for handling chemicals should be observed Eye protection:

The usual precautions for handling chemicals should be observed Inhalation protection:

Hand protection: Wear suitable protective gloves. (PVC or rubber recommended)

Other protection information: Keep locked up and out of reach for children

Other protection information: The usual precautions for handling chemicals should be observed

Physical and Chemical Properties

Liquid Appearance:

Color: Yellow (transparent)

Odor: Mild irritating

Boiling point/range: Not relevant (Decomposition under effect of heating)

Melting point/range: Not determined

Flash point: N.A. Flammability: N.A. Auto ignition temperature: N.A. Explosive properties: N.A. Explosive limits: N.A.

Oxidizing properties: Oxidizing agent producing free radicals at room/elevated temperatures or by

catalytic agent

Vapor pressure: Not determined

1068 kg/m³ (20 °C) Density:

Bulk density: Not relevant

Solubility in water: 100%

Solubility in other solvents: Not determined pH-value: Not determined

Partition coefficient N.A.

n-octanol/water:

Relative vapor density: Not available

Viscosity: Not determined

Print date: 8/1/2013

Revision: 16.0 Compile date: September 2011 Page 7 of 11

10 Stability and Reactivity

Stability: Decomposition starts at 10 °C

Conditions to avoid: Strong acids

Reducing agents

Combustible substances

Protect against heat and direct sunlight

Materials to avoid: Most metals

Hazardous decomposition

Contact with heavy metals, their compounds and their alloys. Sodium hypochlorite

products: decomposes under the development of oxygen.

11 Toxicological Information

Toxicity data: Skin LD₅₀: Rabbit: >5000 mg/kg bw

Oral LD₅₀: Rat: >10000 mg/kg bw Inhalation LC₅₀: Rat: >10.5 mg/kg bw

Irritation data: Skin: irritating to skin

Eyes: severely irritating

Respiratory: irritating to respiratory system

Ingestion: irritating for mouth, throat, stomach and intestines

Reproductive effects data: No evident of gene toxic effects in vivo

Ingredient toxicological data: Not carcinogenic

Not embryo toxic

12 Ecological Information

Environmental behavior: Hadex[®] is based on a special formula with an additive ingredient sodium

hypochlorite of < 5%

No experimental ecological data available

Mobility in earth: Decomposes

Ecological toxicity: Fish: Acute toxicity, 96h-LC50: 6 - 32mg/l

Daphnia: Acute toxicity, 96h-IC50: 2.1mg/l Plankton: Acute toxicity, 48h-LC50: 0,4mg/l

13 Disposal Considerations

Special disposal instructions: Waste disposal accordance with regulations

Empty containers: Waste disposal accordance with regulations

Revision: 16.0 Print date: 08/01/2013
Page 8 of 11 Compile date: September 2011



14 Transport Information

UN-Number: 3082

Land transport

ADR class: 9 Packing group: III

Proper shipping name: Environmentally Hazardous substances Liquid,

N.O.S. (sodium hypochlorite<5%)

Sea transport

IMO/IMDG code: 9 Packing group: III

Proper shipping name: Environmentally Hazardous substances Liquid,

N.O.S. (sodium hypochlorite<5%)

EMS: F-A, S-F

N.A.

Marine Pollutant: Yes MFAG: N.A.

Air transport

IATA/ICAO-DGR Class: 9 Packing group: III

Environmentally Hazardous substances

Proper shipping name: Liquid, N.O.S. (sodium

hypochlorite<5%)

The regulations above are valid on the revision date of this Material Safety Data Sheet. Due to possible changes in transport regulations for dangerous materials, we advise you to confirm the validity with your own transport organization.

Print date: 8/1/2013 Compile date: September 2011 Revision: 16.0 Page 9 of 11

15 Regulatory Information

HADEX with CTGB Allowance No.: 9574 N is classified with the following hazard symbols and safety recommendations:

Product label name: Hadex[®]

Labeling according to EC-directives.

Classification based on: Calculation

Symbol(s)



H(azard) phrase(s): H315: Causes skin irritation.

H318 : Causes serious eye damage.H400 : Very toxic to aquatic life.

P(recautionary) phrase(s): P102: Keep out of reach of children.

P403/P235 : Store in a well ventilated place. Keep cool.

P273: Avoid release to the environment.

P501: Dispose of contents/container to dispose of the local/regional/

national/international regulations.

P391: Collect spillage.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

R(isk) phrase(s): R38: Irritating to skin.

R41: Risk of serious eye damageR50: Very toxic to aquatic organisms

Revision: 16.0 Print date: 08/01/2013
Page 10 of 11 Compile date: September 2011



S(afety) phrase(s): S2: Keep out of reach of children.

S3/7/9: Keep container tightly closed in a cool, well ventilated place.

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face

protection.

Other information: Hadex[®] may cause spots upon clothing.

Signal word: "danger"

16 Other Information

Information compiled on: September 2011

All information concerning our product is supplied to the best of our knowledge and believed to be reliable. However, no warranty is made, either expressed or implied, regarding its accuracy or the result to be obtained from the use of the information. It remains the user's responsibility to determine the safety, toxicity and suitability for his own use.

Date printed: 8-1-2013

Print date: 8/1/2013 Revision: 16.0 Compile date: September 2011 Page 11 of 11