

SAFETY DATA SHEET

Klorit

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Klorit

Unique formula identifier (UFI)

EH90-H09J-U00X-G0JS

1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture PC8 Disinfection

Product code (A.I.S.E.)

Code

AISE-P314 / Surface disinfactant. Manual process.

AISE-P315 / Surface disinfactant. Spray and rinse manual process.

Use descriptors (REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC35	Washing and Cleaning Products (including solvent based products)
PC8	Biocidal Products (e.g. Disinfectants, pest control)
Environmental release category	Description
ERC8a	Wide dispersive indoor use of processing aids in open systems

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Multi-Services ApS Stenderupvej 226 6092 Sønder Stenderup Danmark 44228383 www.multi-services.dk

Contact person Svend Olsen

E-mail

kunder@multi-services.dk

Revision

11/14/2022

SDS Version

1.0

1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service) See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Skin Irrit. 2; H315, Causes skin irritation.



Eye Dam. 1; H318, Causes serious eye damage. Aquatic Acute 1; H400, Very toxic to aquatic life. Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects. 2.2. Label elements Hazard pictogram(s) Signal word Danger Hazard statement(s) Causes skin irritation. (H315) Causes serious eye damage. (H318) Very toxic to aquatic life with long lasting effects. (H410) Safety statement(s) General Prevention Wear face protection/protective gloves/protective clothing. (P280) Wash hands and exposed skin thoroughly after handling. (P264) Avoid release to the environment. (P273) Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) Immediately call a POISON CENTER/doctor. (P310) Storage _ Disposal Dispose of contents/container to an approved waste disposal plant. (P501) Hazardous substances sodium hypochlorite, solution % Cl active Silicid acid, sodium salt Additional labelling Active substance(s): sodium hypochlorite, solution % Cl active (4.21 g/100g) UFI: EH90-H09J-U00X-G0JS 2.3. Other hazards Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium hypochlorite, solution % Cl active	CAS No.: 7681-52-9 EC No.: 231-668-3 REACH: 01-2119488154-34-xxxx Index No.: 017-011-00-1	3-5%	EUH031 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	
Silicid acid, sodium salt	CAS No.: 1344-09-8 EC No.: 215-687-4 REACH: 01-2119448725-31-0011 Index No.:	1-3%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 10.00 %) STOT SE 3, H335	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.



Other information

Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

· Chlorine-based bleaching Agents

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water/water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 30 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Some metal oxides

Oxygen, hypochlorous acid, chlorine.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures



- 6.1. Personal precautions, protective equipment and emergency procedures Avoid direct contact with spilled substances.
- 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage temperature

6 - 35°C

Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen. Strong acids

Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

sodium hypochlorite, solution % Cl active

Duration	Route of exposure	DNEL
Long term – Local effects - Workers	Inhalation	1,4 mg/m³
Short term – Local effects - Workers	Inhalation	3 mg/m ³

PNEC

sodium hypochlorite, solution % Cl active

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,0126 mg/l
Freshwater sediment		0,047 mg/l
Marine water		0,0126 mg/l
Marine water sediment		0,047 mg/l

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios



There are no exposure scenarios implemented for this product. **Exposure limits** Occupational exposure limits have not been defined for the substances in this product. Appropriate technical measures Apply standard precautions during use of the product. Avoid inhalation of vapours. Hygiene measures Take off contaminated clothing and wash it before reuse. Measures to avoid environmental exposure Keep damming materials near the workplace. If possible, collect spillage during work. 8.3. Individual protection measures, such as personal protective equipment Generally Use only CE marked protective equipment. **Respiratory Equipment** Class Colour Standards Type No special when used as intended. Skin protection Recommended **Type/Category** Standards Dedicated work clothing should be worn. Hand protection Material Glove thickness (mm) **Breakthrough time** Standards (min.) Nitrile 0,38 > 240 EN374-2, EN374-3, EN388 Eye protection Standards Туре EN166 Face shield alternatively safety glasses with side shields. SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state Liquid Colour Clear Odour / Odour threshold Characteristic рΗ 11,1 Density (g/cm³) 1.08 Kinematic viscosity Testing not relevant or not possible due to the nature of the product. Particle characteristics Does not apply to liquids. Phase changes Melting point/Freezing point (°C) Testing not relevant or not possible due to the nature of the product. Softening point/range (waxes and pastes) (°C) Does not apply to liquids. Boiling point (°C)



Testing not relevant or not possible due to the nature of the product. Vapour pressure
Testing not relevant or not possible due to the nature of the product. Relative vapour density
Testing not relevant or not possible due to the nature of the product. Decomposition temperature (°C)
Testing not relevant or not possible due to the nature of the product. Data on fire and explosion hazards
Flash point (°C)
Testing not relevant or not possible due to the nature of the product. Auto-Ignition (°C)
Testing not relevant or not possible due to the nature of the product. Flammability (°C)
Testing not relevant or not possible due to the nature of the product. Lower and upper explosion limit (% v/v)
Testing not relevant or not possible due to the nature of the product. Solubility
Solubility in water Completely soluble
n-octanol/water coefficient
Testing not relevant or not possible due to the nature of the product. Solubility in fat (g/L)
Testing not relevant or not possible due to the nature of the product. Other information
Other physical and chemical parameters No data available.
SECTION 10: Stability and reactivity
10.1. Reactivity Contact with acids liberates toxic gas.
Reacts violently with alkali metals, metal powders, oxidizing materials and amines. 10.2. Chemical stability
The product is stable under the conditions, noted in section 7 "Handling and storage". 10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas. 10.4. Conditions to avoid
Protect from sunlight. Do no expose to temperatures exceeding 20 °C/68 °F. 10.5. Incompatible materials
Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen. Strong acids
10.6. Hazardous decomposition products Oxygen, hypochlorous acid, chlorine.
SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

icute toxicity	
Product/substance Test method	sodium hypochlorite, solution % Cl active
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1100 mg/kg ·
Other information	
Product/substance	sodium hypochlorite, solution % Cl active
Test method	sould mypoenionite, solution // er delive
Species	Rat
Route of exposure	Dermal



Test	LD50
Result	> 2000 mg/kg ·
Other information	
Product/substance	sodium hypochlorite, solution % Cl active
Test method	south hypothionite, solution % cractive
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	> 10500 mg/kg ·
Other information	
Product/substance	Silicid acid, sodium salt
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	> 5000 mg/kg ·
Other information	
Product/substance	Silicid acid, sodium salt
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LD50
Result	1152 - 1349 mg/ kg ·
Other information	
.	
Skin corrosion/irritation	
Causes skin irritation	
Serious eye damage/irri	
Causes serious eye d	amage.
Respiratory sensitisation	n
Based on available da	ata, the classification criteria are not met.
Skin sensitisation	
Based on available da	ata, the classification criteria are not met.
Germ cell mutagenicity	
	ata, the classification criteria are not met.
Carcinogenicity	
	ata, the classification criteria are not met.
Reproductive toxicity	
	ata, the classification criteria are not met.
	ata, the classification criteria are not met.
STOT-single exposure	ata, the classification criteria are not met.
STOT-repeated exposur	
	ata, the classification criteria are not met.
Aspiration hazard	
	ata, the classification criteria are not met.
11.2. Information on oth	her hazards
Long term effects	
	s product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.
	in an increased absorption potential of other hazardous substances at the area of exposure.
Endocrine disrupting pr	
None known.	
Other information None known.	
None known.	
SECTION 12: Ecological	information
12.1. Toxicity	
Product/substance	sodium hypochlorite, solution % Cl active
Test method	
Species	Fish
Compartment	



Duration	96 hours
Test	LC50
Result	0,06 mg/l ·
Other information	-
Product/substance	sodium hypochlorite, solution % Cl active
Test method	solution type choice, solution we deduce
Species	Crustacean
Compartment	
Duration	48 hours
Test	EC50
Result	0,141 mg/l ·
Other information	
Product/substance	sodium hypochlorite, solution % Cl active
Test method	
Species	Algae
Compartment	
Duration	No data available.
Test	NOEC
Result	0,0021 mg/l ·
Other information	
Product/substance	Silicid acid, sodium salt
Test method	Fich
Species Compartment	Fish
Duration	96 hours
Test	LC50
Result	3185 mg/l ·
Other information	
Product/substance	Silicid acid, sodium salt
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	4857 mgI ·
Other information	
Product/substance	Silicid acid, sodium salt
Test method	Alass
Species	Algae
Compartment Duration	48 hours
Test	ECO
Result	>1000 mg/l ·
Other information	
12.2. D	
12.2. Persistence and degr	
Product/substance	Silicid acid, sodium salt
Biodegradable Test method	Yes
Result	
Nesul	
12.3. Bioaccumulative pote	
Product/substance	sodium hypochlorite, solution % Cl active
Test method	
Potential bioaccumulation	
LogPow	-3,4200
BCF Other information	No data available.
Other information	
Droduct/out-states	Cilisid acid codium calt
Product/substance Test method	Silicid acid, sodium salt
Potential bioaccumulation	No
LogPow	No data available.



BCF Other information No data available.

12.4. Mobility in soil

sodium hypochlorite, solution % Cl active LogKoc = 0.8679, High mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties None known.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste. HP 14 – Ecotoxic Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code 16 09 04*

16 09 04* Oxidising substances, not otherwise specified Waste group O: Reactive waste

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	UN1791	HYPOCHLORITE SOLUTION	Class: 8 Labels: 8 Classification code: C9	III	Yes	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1791	HYPOCHLORITE SOLUTION	Class: 8 Labels: 8 Classification code: C9	III	Yes	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
ΙΑΤΑ	UN1791	HYPOCHLORITE	Class: 8	III	Yes	See below for



14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatior
	SOLUTION	Labels: 8 Classification code: C9			additional information.

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

Biocidal Products Regulations

Product type: PT2 - Disinfectants and algaecides not intended for direct application to humans or animals Restrictions on use:

Directions for use and dose rate:

Additional information:

Additional information

Not applicable.

Sources

The Danish Working Environment Authority's executive order no. 239 of 6 April 2005 on young people's work. Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances. Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No



SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH031, Contact with acids liberates toxic gas.

H290, May be corrosive to metals.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H335, May cause respiratory irritation.

H400, Very toxic to aquatic life.

H411, Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen) PC35 = Washing and Cleaning Products (including solvent based products)

PC8 = Biocidal Products (e.g. Disinfectants, pest control)

ERC8a = Wide dispersive indoor use of processing aids in open systems

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

alias

Other



A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en