

SÜDWEST Schimmel- Fresser

Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word	:	Danger
Hazard statements	:	H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. Prevention: P260 Do not breathe mist. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. Response: 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/ doctor. Disposal: P501 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

Hazardous components which must be listed on the label:

sodium hypochlorite

Additional Labelling

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SÜDWEST Schimmel- Fresser

The product is alkaline.
Avoid contact with the skin and the eyes.
Use biocides safely. Always read the label and product information before use.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium hypochlorite	7681-52-9 231-668-3 017-011-00-1 01-2119488154-34-XXXX	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit EUH031 ≥ 5 %	≥ 4,25 - < 4,5
sodium carbonate	497-19-8 207-838-8 011-005-00-2 01-2119485498-19-XXXX	Eye Irrit. 2; H319	≥ 3 - < 3,25
sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27-XXXX	Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 ≥ 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	≥ 0,5 - < 0,9
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	308062-28-4 01-2119490061-47-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	≥ 0,2 - < 0,25

For explanation of abbreviations see section 16.

SÜDWEST Schimmel- Fresser

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Do NOT use solvents or thinners. Take off contaminated clothing and shoes immediately. If symptoms persist, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of eye contact, flush with warm water. Physician should be contacted immediately. Call a physician immediately. Protect unharmed eye. Continue rinsing eyes during transport to hospital.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention. Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	corrosive effects
----------	-------------------

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically. No information available.
-----------	---

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Exposure to decomposition products may be a hazard to health.
Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)

SÜDWEST Schimmel- Fresser

Chlorine

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Complete suit protecting against chemicals

Additional advice

Suppress (knock down) gases/vapours/mists with a water spray jet.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not get in eyes, on skin, or on clothing.
Use personal protective equipment.
Ensure adequate ventilation.
Do not breathe fumes / aerosol
Wear respiratory protection.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel.
Clean with detergents. Avoid solvents.
Never neutralise with the following products:
Acid
Dispose of contaminated material as waste according to item 13.
Clean contaminated surface thoroughly.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
Comply with the statutory regulations on health and safety at work.
Handle and open container with care.
When diluting, always stir the product into standing water, not water to product.
Do not mix with acids.
Do not re-use empty containers.

Hygiene measures

Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2 Conditions for safe storage, including any incompatibilities

SÜDWEST Schimmel- Fresser

Requirements for storage areas and containers	Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Provide floor trough without outlet. Unsuitable materials for containers Aluminium Zinc Suitable material Polyethylene Observe label precautions. Keep in a dry place. Protect from frost, heat and sunlight.
Advice on common storage	Keep away from food, drink and animal feedingstuffs. Oxidizing agents Keep away from metals. Keep away from combustible materials. Do not store near acids.
Storage temperature	2 - 8 °C
7.3 Specific end use(s)	For further information, see also Technical Data Sheet for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.
The lists that were valid during the creation were used as basis.
Monitoring procedures for the assessment of workplace exposure: standard EN 482

8.2 Exposure controls

Engineering measures

Ensure good ventilation; if possible, use / install internal extractor equipment.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Break through time : 480 min
Glove thickness : 0,4 mm

Remarks : Gloves made of nitrile rubber, e.g. KCL 730 Camatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

SÜDWEST Schimmel- Fresser

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

- Skin and body protection : Impervious clothing
Alkali-resistant protective clothing
Remove and wash contaminated clothing before re-use.
Skin should be washed after contact.
Preventive skin protection
- Respiratory protection : Breathing protection equipment required in inadequately ventilated places and during spraying.
Breathing apparatus needed only when aerosol or mist is formed.
Respiratory filter for brief exposure:
Combination filter B-P2
Respirator with a vapour filter (EN 141)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : Yellowish, clear
- Odour : chlorous
- Odour Threshold : No data available
- Melting point/freezing point : No data available

SÜDWEST Schimmel- Fresser

Initial boiling point and boiling range	:	60,4 °C
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Decomposition temperature	:	> 200 °C
pH	:	ca. 12,4 - 13,4 (20 °C)
Viscosity Viscosity, dynamic	:	No data available
Flow time	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	Not applicable

SÜDWEST Schimmel- Fresser

Vapour pressure : No data available

Relative density : No data available

Density : ca. 1,12 g/cm³ (20 °C)

9.2 Other information

Explosives : Not explosive

Oxidizing properties : Not applicable

Flammability (liquids) : Not applicable

Self-ignition : not auto-flammable

Metal corrosion rate : Corrosive to metals

Evaporation rate : not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

SÜDWEST Schimmel- Fresser

10.2 Chemical stability

Stable under normal conditions., Decomposes on heating.

10.3 Possibility of hazardous reactions

Hazardous reactions Corrosive in contact with metals
Heating can release hazardous gases.

10.4 Conditions to avoid

Conditions to avoid Direct sources of heat.
Strong sunlight for prolonged periods.
At higher temperatures, release of chlorine possible

10.5 Incompatible materials

Materials to avoid Acids
Metals
Reducing agents
Oxidizing agents
Combustible material

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Product:

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

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

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

Components:

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

Acute oral toxicity LD50 (Rat): 1.064 mg/kg

Skin corrosion/irritation

Product:

Causes skin irritation.

Components:

sodium hypochlorite:

Causes severe skin burns and eye damage.

sodium hydroxide:

Causes severe skin burns and eye damage.

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

Causes skin irritation.

Serious eye damage/eye irritation

Product:

Causes serious eye damage.

SÜDWEST Schimmel- Fresser

Components:

sodium hypochlorite:

Causes serious eye damage.

sodium carbonate:

Causes serious eye irritation.

sodium hydroxide:

Causes serious eye damage.

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

Causes serious eye damage.

Respiratory or skin sensitisation

Product:

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

Germ cell mutagenicity

Product:

Genotoxicity in vitro

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

Carcinogenicity

Product:

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

Reproductive toxicity

Product:

Effects on fertility

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

Developmental Toxicity

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

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

Toxicology, Metabolism, Distribution

Further information

Product:

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Product:

General Information

If ingested, severe burns of the mouth and throat, as well as a

SÜDWEST Schimmel- Fresser

danger of perforation of the oesophagus and the stomach.

Further information

Product:

Remarks

: The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish No data available

Components:

sodium hypochlorite:

M-Factor (Acute aquatic toxicity) 10

M-Factor (Chronic aquatic toxicity) 1

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

Toxicity to fish LC50 (Fish): 2,67 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia (water flea)): 3,1 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants NOEC (Algae): 0,067 mg/l
Exposure time: 28 d

ErC50 (Selenastrum capricornutum (green algae)): 0,82 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) 1

12.2 Persistence and degradability

Product:

Biodegradability

rapidly biodegradable

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Components:

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

Biodegradability rapidly degradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

12.4 Mobility in soil

Product:

Mobility No data available

12.5 Results of PBT and vPvB assessment

Product:

SÜDWEST Schimmel- Fresser

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information The product is alkaline.
Even small quantities emptied into the soil can affect the quality of drinking water.
Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.
Very toxic to aquatic life with long lasting effects.
Eco-toxic effects, in particular aquatic toxicity, are only possible when larger quantities are released into water resulting in a change of the pH-value.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product The user is responsible for proper coding and marking of any waste.
Partial and residual quantities can be reused.
Fluid remains constitute hazardous waste and should not be poured into the sewage system. They should be taken to a local waste disposal site.

Contaminated packaging Packaging that is not properly emptied must be disposed of as the unused product.
Empty packaging should be recycled through disposal systems.

Waste key for the unused product 20 01 29* detergents containing hazardous substances
(*) hazardous waste in terms of the European directive 2008/98/EG

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR	1719
IMDG	1719
IATA	1719

14.2 UN proper shipping name

ADR	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, sodium hypochlorite solution)
-----	---

SÜDWEST Schimmel- Fresser

IMDG	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, sodium hypochlorite solution)
IATA	Caustic alkali liquid, n.o.s. (SODIUM HYDROXIDE, sodium hypochlorite solution)

14.3 Transport hazard class(es)

ADR	8
IMDG	8
IATA	8

14.4 Packing group

ADR	
Packing group	III
Classification Code	C5
Hazard Identification Number	80
Labels	8
Tunnel restriction code	(E)
IMDG	
Packaging group	III
Labels	8
EmS number	F-A, S-B
IATA	
Packaging group	III
Labels	8

14.5 Environmental hazards

ADR	
Environmentally hazardous	: yes
IMDG	
Marine pollutant	: yes

14.6 Special precautions for user

Remarks This information is not available.

14.7 Maritime transport in bulk according to IMO instruments

Remarks Not applicable

SÜDWEST Schimmel- Fresser

Additional advice

ADR
ADR: Up to 1 l per inner package, transport as limited quantity in accordance with ADR 3.4.

SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU

Not applicable

VOC
Directive 2004/42/EC

does not fall under Directive 2004/42/EC

according to Detergents
Regulation EC 648/2004

less than 5 %: Chlorine-based bleaching agents
: Amphoteric surfactants
: Phosphonates

Regulation (EU) No 649/2012 of
the European Parliament and the
Council concerning the export and
import of dangerous chemicals

Not applicable

REACH - Restrictions on the
manufacture, placing on the
market and use of certain
dangerous substances, mixtures
and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:
(75, 3)sodium hypochlorite
sodium carbonate

Further notes

Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.
The effectiveness of the biocide is dependent on correct storage and observation of the use-by date.

Type of product:
Disinfectants and algacides not intended for direct application to humans or animals
Before use please consult technical data sheet and safety data sheet.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2 Chemical safety assessment

This information is not available.

**SÜDWEST Schimmel-
Fresser****SECTION 16: OTHER INFORMATION**

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of H-Statements

H290	: May be corrosive to metals.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

SÜDWEST Schimmel- Fresser

Further information

Other information

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS
REG_EU / EN

sdb@suedwest.de