

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**HALAG**   
SWITZERLAND

Trade name : **Halades 194**

Revision : 25.01.2023

Version (Revision) : 5.0.0 (4.0.0)

Print date : 13.09.2023

## 1. Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Halades 194 (10010194)

Unique Formula Identifier (UFI): UR2X-38SR-U007-RJ4P

### 1.2 Relevant identified uses of the substance or mixture

PC 0.67 - Disinfectant

#### Sectors of use [SU]

Professional

Industrial

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier :

Halag Chemie AG

#### Street :

Weiernstrasse 30

#### Postal code/City :

CH-8355 Aadorf

#### Telephone :

+41584336868

#### Contact :

Matthias Trösch (matthias.troesch@halagchemie.ch)

#### EU Representation (CLP/REACH):

WOG Logistics GmbH

#### Street :

Radetzkystr. 126

#### Postal code/City :

AT-6845 Hohenems

#### Telephone :

+43 55 769 06 22

#### Telefax :

+43 55 769 06 22 10

#### E-mail :

admin@worldofgreen.at

### 1.4 Emergency telephone number

Schweizerisches Tox-Zentrum, 24h-Notfallnr. 145, Telefon +41 44 251 51 51

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

##### Signal word

Danger

##### Hazard components for labelling

N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9

NON-IONIC SURFACTANT

LACTIC ACID ; CAS No. : 79-33-4

##### Hazard statements

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

P260 Do not breathe vapors.

P264 Wash the skin immediately and thoroughly with plenty of water after contact or after handling.

P273 Avoid release to the environment.

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

P310 Immediately call a POISON CENTER or doctor

P321 Special treatment (show the label or safety data sheet to the doctor).

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

P501 Disposal: Dispose of contents to a recognized collection point for hazardous waste.

### 2.3 Other hazards

#### Adverse environmental effects

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The PVT/vPvB criteria according to REACH, Appendix XIII, are not met.

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; REACH No. : 01-2119980592-29 ; EC No. : 219-145-8 ; CAS No. : 2372-82-9

Weight fraction : 5 - 10 %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 STOT RE 2 ; H373 Skin Corr. 1B ; H314 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

NON-IONIC SURFACTANT ; EC No. : Polymer

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Chronic 3 ; H412

LACTIC ACID ; REACH No. : 01-2119474164-39 ; EC No. : 201-196-2 ; CAS No. : 79-33-4

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Eye Dam. 1 ; H318

ANIONIC SURFACTANT ; EC No. : Polymer

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### Regulation (EC) No. 648/2004: Labelling for contents

disinfectants	5 - < 15 %
non-ionic surfactants	< 5 %
anionic surfactants	< 5 %

## 4. First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casually to fresh air and keep warm and at rest. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### In case of skin contact

Immediately remove any contaminated clothing, shoes or stockings. Wash with plenty of water. Keep at rest. Call a physician immediately.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Flush with plenty of water (10-15 min.). Call a physician immediately.

#### Following ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.

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

None

## 5. Firefighting measures

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam Water spray jet Water mist Dry extinguishing powder Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture

Not combustible under normal conditions. In case of fire may be liberated: The product develops hydrogen in an aqueous solution in contact with metals.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus.

### 5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

## 6. Accidental release measures

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## 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Inhalation of vapours or spray/mists Avoid: See protective measures under point 7 and 8.

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains, user solution (dilution) see also point 12.7. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## 6.3 Methods and material for containment and cleaning up

### For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention. Prevent spread over a wide area (e.g. by containment or oil barriers).

## 6.4 Reference to other sections

None

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Other regulations, restrictions and prohibition regulations To follow : Normal precautions taken when handling chemicals should be observed. Keep locked up. Prevent aerosol formation. Do not breathe spray.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Follow the instructions for use on the label. Keep container tightly closed. Storage temperature: 5 - 30 °C. Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area. Store in accordance with local official regulations.

#### Hints on joint storage

**Storage class (Switzerland):** 8

**Storage class (TRGS 510):** 8B

#### Do not store together with

Keep away from: Acid Oxidizing agent.

#### Further information on storage conditions

Shelf life from production: 2.5 years

### 7.3 Specific end use(s)

None

## 8. Exposure controls/personal protection

By law, the employer is obliged to carry out a risk assessment and to define suitable measures appropriate to the risk. If the threshold limit in Section 8.1 as defined by the authorities is exceeded, all the protective measures listed in Section 8.2 must be applied and regular measurements must be made in order to ensure compliance with the official threshold limits. The described measures must be applied in every situation in which a risk cannot be excluded. If the assessment shows a low risk for endangering the employees, the measures can be relaxed according to the risk.

### 8.1 Control parameters

#### Occupational exposure limit values

N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9

Limit value type (country of origin) : KZG value ( CH )

Parameter : E: inhalable fraction

Limit value : 0.4 mg/m<sup>3</sup>

Remark : SSC

Version : 31.01.2022

Limit value type (country of origin) : MAK ( CH )

Parameter : E: inhalable fraction

Limit value : 0.05 mg/m<sup>3</sup>

Remark : SSC

Version : 31.01.2022

### 8.2 Exposure controls

#### Personal protection equipment

Wash hands before breaks and after work.

#### Eye/face protection

Use safety glasses or face protection to EN 166.

#### Skin protection

##### Hand protection

Suitable chemical resistant protective gloves according to ISO EN 374-1:2016: Type A or B, Permeation resistance (penetration resistance): 30 minutes. Material: Nitrile. thickness  $\geq$  0.38 mm. Glove recommendation: Sol-Vex 37-675 (Type A, thickness 0.38 mm, test chemicals used: J,K,L,O,P,T) or Sol-Vex 37-185 (Type A, thickness 0.56 mm, test chemicals used: A,G,J,K,L,P,T) This information is based on the manufacturer's specifications. It should be noted that the daily service life of a chemical protective glove in practice (due to many influencing factors such as e.g. heat) may be shorter than the permeation time determined according to EN 374. The service life of a glove can be considerably prolonged, if it is regularly washed with soap and water after work is finished or at least rinsed off under a running tap. Rub greasy ointment into the skin.

##### Body protection

Wear suitable protective clothing to EN 14605, EN 20344, EN 20345: protective clothing and boots.

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## Respiratory protection

EN 143, EN 14387. None, if handled according to order.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : light yellow (batch-related color differences possible)

Odour : characteristic

#### Safety characteristics

Initial boiling point and boiling range : ( 1013 hPa ) not applicable

Flash point : not applicable

Vapour pressure : ( 50 °C ) not applicable

Density : ( 20 °C ) 1.020 g/cm<sup>3</sup>

Solvent separation test : ( 20 °C ) not applicable

Solubility in water : well water-solubly

pH : 9.9

pH value : ( 20 °C / 5 g/l ) 8.7

Viscosity; ( 5 °C ) approx. 5 mPa\*s

Viscosity : ( 20 °C ) approx. 4 mPa\*s

### 9.2 Other information

None

## 10. Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

### 10.5 Incompatible materials

Acid Keep away from: Oxidizing agent.

### 10.6 Hazardous decomposition products

None known.

## 11. Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( NON-IONIC SURFACTANT )

Exposure route : Oral

Species : Rat

Effective dose : 2000 mg/kg

Method : OECD 423

Parameter : LD50 ( LACTIC ACID ; CAS No. : 79-33-4 )

Exposure route : Oral

Species : Rat

Effective dose : 3543 mg/kg

Parameter : LD50 ( ANIONIC SURFACTANT )

Exposure route : Oral

Species : Rat

Effective dose : 2870 mg/kg

Method : OECD 401

Parameter : LD50 ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )

Exposure route : Oral

Species : Rat

Effective dose : 243.6 mg/kg

##### Acute dermal toxicity

Parameter : LC50 ( LACTIC ACID ; CAS No. : 79-33-4 )

Exposure route : Dermal

Species : Rabbit

Effective dose : 2000 mg/kg

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Parameter : LD50 ( ANIONIC SURFACTANT )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 600 mg/kg  
Parameter : LD50 ( NON-IONIC SURFACTANT )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Method : OECD 402

#### Acute inhalation toxicity

Parameter : LC50 ( LACTIC ACID ; CAS No. : 79-33-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 7400 mg/m<sup>3</sup>  
Parameter : LD50 ( NON-IONIC SURFACTANT )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1600 mg/l  
Exposure time : 4 h  
Method : OECD 403

#### 11.2 Information on other hazards

##### Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.  
Eye contact: Causes burns. Inhaling: in high concentration irritations of the mucous membranes possible. After swallowing: Causes burns at mouth, throat, mucous membrane, esophagus, stomach, intestine. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( NON-IONIC SURFACTANT )  
Species : Acute (short-term) fish toxicity  
Effective dose : 2.5 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( LACTIC ACID ; CAS No. : 79-33-4 )  
Species : Danio rerio (zebrafish)  
Effective dose : 320 mg/l  
Parameter : LC50 ( ANIONIC SURFACTANT )  
Species : Acute (short-term) fish toxicity  
Effective dose : 7.1 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )  
Species : Acute (short-term) fish toxicity  
Effective dose : 0.68 mg/l  
Exposure time : 96 h

##### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( NON-IONIC SURFACTANT )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1.5 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( LACTIC ACID ; CAS No. : 79-33-4 )  
Species : Acute (short-term) toxicity to crustacea  
Effective dose : 130 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ANIONIC SURFACTANT )  
Species : Acute (short-term) toxicity to crustacea  
Effective dose : 7.4 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )  
Species : Daphnia magna (Big water flea)

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Effective dose : 0.073 mg/l

Exposure time : 48 h

## Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )

Species : Acute (short-term) toxicity to algae and cyanobacteria

Effective dose : 0.054 mg/l

Exposure time : 72 h

Parameter : EC50 ( LACTIC ACID ; CAS No. : 79-33-4 )

Species : Acute (short-term) toxicity to algae and cyanobacteria

Effective dose : 3500 mg/l

Parameter : EC50 ( ANIONIC SURFACTANT )

Species : Acute (short-term) toxicity to algae and cyanobacteria

Effective dose : 27.7 mg/l

Exposure time : 72 h

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN ; CAS No. : 2372-82-9 )

- Biodegradation

Value : 91 %

Period : 28 D

Method : OECD 302B

Parameter : CO2 formation (% of the theoretical value) ( NON-IONIC SURFACTANT )

Value : > 60 %

Period : 28 D

Evaluation : Readily biodegradable (according to OECD criteria).

Method : OECD 301B

Parameter : Bismuth-active substance ( NON-IONIC SURFACTANT )

Value : >= 90 %

Method : OECD 301E

Parameter : Biodegradation ( ANIONIC SURFACTANT )

- Degree of elimination

Value : 77 - 79 %

Period : 28 D

Evaluation : Readily biodegradable (according to OECD criteria).

Method : OECD 301D

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7 Other adverse effects

No information available.

### 12.8 Additional ecotoxicological information

The sewage liberated during use can be emptied into drains after separation of the solid material part and with preceding neutralization. When leading acid or alkaline products into sewage disposal plants, the waste water lead in must not be above or below a ph-value of 6.5 to 9, for a displacement of the ph-value may cause disturbances in sewers and biological sewage works. Local rules have priority.

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

Product residues are considered as special refuse and are by the label "special refuse" and the waste code to be marked. Non-contaminated packages may be recycled.

#### After intended use

#### Waste codes/waste designations according to EWC/AVV

EU: Waste code (2008/98/EG): 20 01 15\* // CH: Waste code (VeVA, SR 814.610): 20 01 15 S // AT: Waste code (ÖNORM S 2100): 52402 Lyes Waste code (91/689/EEC) : 20 01 99 -

## 14. Transport information

### 14.1 UN number or ID number

UN 1903

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## 14.2 UN proper shipping name

### Land transport (ADR/RID)

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN )

### Sea transport (IMDG)

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN )

### Air transport (ICAO-TI / IATA-DGR)

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ( N-(3-AMINOPROPYL)-N-DODECYLPROPAN-1.3-DIAMIN )

## 14.3 Transport hazard class(es)

### Land transport (ADR/RID)

Class(es) : 8  
Classification code : C9  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special Provisions : LQ 51 · E 1  
Hazard label(s) : 8 / N

### Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Hazard label(s) : 8 / N

### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8  
Hazard label(s) : 8

## 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

## 14.6 Special precautions for user

None

## 15. Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

The product is intended for professional use.

##### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

#### National regulations

##### Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

### 15.2 Chemical Safety Assessment

No information available.

## 16. Other information

### 16.1 Indication of changes

02. Label elements · 03. Hazardous ingredients · 08. Occupational exposure limit values

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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## 16.6 Training advice

None

## 16.7 Additional information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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