

EC safety data sheet

Trade name: KRONES colclean CG 3011

Current version : 1.0.0, issued: 08.11.2019

Replaced version: -, issued: -

Region: GB

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

1.1 Product identifier

Trade name

KRONES colclean CG 3011

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

Relevant identified uses of the substance or mixture

detergent

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling

Telephone no. +49 9401 70-3020

Fax no. +49 9401 70-3696

e-mail kic@kic-krones.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Acute 1; H400

Aquatic Chronic 2; H411

Eye Dam. 1; H318

Skin Corr. 1B; H314

STOT RE 1; H372

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS05



GHS08



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:

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(Z)-N-9-octadecenylpropane-1,3-diamine

Hazard statement(s)

H314 Causes severe skin burns and eye damage.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 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.
 P391 Collect spillage.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | | Additional information | |
|----|--|--|------------------------|--------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | | | |
| | 7173-62-8 230-528-9 - 01-2119487002-46 | Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 10.00 - < 25.00 | %-b.w. |
| 2 | formic acid | | | |
| | 64-18-6 200-579-1 607-001-00-0 01-2119491174-37 | Skin Corr. 1A; H314 Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 | < 5.00 | %-b.w. |
| 3 | Alcohols, C16-18, ethoxylated | | | |
| | 68439-49-6 500-212-8 - - | Eye Irrit. 2; H319 | < 5.00 | %-b.w. |
| 4 | POLY(OXY-1,2ETHANEDIYL), .ALPHA.-(CARBOXYMETHYL - .OMEGA.-(OCTYLOXY)- | | | |
| | 53563-70-5 - - - | Eye Dam. 1; H318 Skin Irrit. 2; H315 | < 2.50 | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 1 | - | - | M = 10 | M = 1 |
| 2 | - | Skin Irrit. 2; H315: C >= 2% Eye Irrit. 2; H319: C >= 2% Skin Corr. 1B; H314: C >= 10% Skin Corr. 1A; H314: C >= 90% | - | - |

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Seek medical advice immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

After skin contact

In case of contact with skin wash off with water. Wash immediately with plenty of water for several minutes. Seek medical attention.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and give plenty of water to drink. Call a doctor 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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Alcohol-resistant foam; Carbon dioxide

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Toxic gases/vapours; Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool closed containers exposed to fire with water. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Avoid contact with skin, eyes and clothing. Remove persons to safety.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art. Only qualified and trained persons are authorised to handle.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Incompatible products

Substances to be avoided, pls. See chapter 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|----|---|---------|-------------------------|
| 1 | formic acid | 64-18-6 | 200-579-1 |
| | 2006/15/EC | | |
| | Formic acid | | |
| | WEL long-term (8-hr TWA reference period) | 9 | mg/m ³ 5 ppm |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Formic acid | | |
| | WEL long-term (8-hr TWA reference period) | 9.6 | mg/m ³ 5 ppm |

DNEL, DMEL and PNEC values

DNEL values (worker)

| No | Substance name | CAS / EC no | | |
|----|--|---------------------|----------|------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | | | 7173-62-8 230-528-9 |
| | dermal | Long term (chronic) | systemic | 5.6 µg/kg bw/day |
| | inhalative | Long term (chronic) | systemic | 39.5 µg/m ³ |
| 2 | formic acid | | | 64-18-6 200-579-1 |
| | inhalative | Long term (chronic) | local | 9.5 mg/m ³ |
| | inhalative | Short term (acute) | systemic | 19 mg/m ³ |

DNEL value (consumer)

| No | Substance name | CAS / EC no | | |
|----|--|---------------------|----------|------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | | | 7173-62-8 230-528-9 |
| | oral | Long term (chronic) | systemic | 2 µg/kg bw/day |
| | dermal | Long term (chronic) | systemic | 2 µg/kg bw/day |

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| | | | | | |
|---|--------------------|---------------------|----------|------------------------------------|-------------------|
| | inhalative | Long term (chronic) | systemic | 6.96 | µg/m ³ |
| 2 | formic acid | | | 64-18-6 200-579-1 | |
| | inhalative | Long term (chronic) | local | 3 | mg/m ³ |
| | inhalative | Short term (acute) | systemic | 9.5 | mg/m ³ |

PNEC values

| No | Substance name | CAS / EC no | |
|----|------------------------|-----------------------|------------------------------------|
| | ecological compartment | Type | Value |
| 1 | formic acid | | 64-18-6 200-579-1 |
| | water | fresh water | 2 mg/L |
| | water | marine water | 0.2 mg/L |
| | water | Aqua intermittent | 1 mg/L |
| | water | fresh water sediment | 13.4 mg/kg dry weight |
| | water | marine water sediment | 1.34 mg/kg dry weight |
| | soil | - | 1.5 mg/kg dry weight |
| | sewage treatment plant | - | 7.2 mg/L |

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|------------------------|-----|
| Form/Colour | |
| liquid | |
| yellow | |
| Odour | |
| No data available | |
| Odour threshold | |
| No data available | |
| pH value | |
| Value | 2.8 |

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| | | | |
|--|--|----------------|---------------|
| Boiling point / boiling range | | | |
| No data available | | | |
| Melting point / melting range | | | |
| No data available | | | |
| Decomposition point / decomposition range | | | |
| No data available | | | |
| Flash point | | | |
| No data available | | | |
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapour pressure | | | |
| No data available | | | |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | 1.005 | g/ml | |
| Reference temperature | 20 | °C | |
| Solubility in water | | | |
| No data available | | | |
| Solubility(ies) | | | |
| No data available | | | |
| Partition coefficient: n-octanol/water | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| | log Pow | 0.03 | |
| | Reference temperature | 25.7 | °C |
| | Method | OECD 123 | |
| | Source | ECHA | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| | log Pow | -2.1 | |
| | Reference temperature | 23 | °C |
| | Method | 92/69/EEC, A.8 | |
| | Source | ECHA | |
| Viscosity | | | |
| No data available | | | |

9.2 Other information

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Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at ambient temperature.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong bases; Oxidizing agents

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

| No | Substance name | CAS no. | EC no. |
|---------|--|-----------|------------------|
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| LD50 | | 500 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 423 | | |
| Source | ECHA | | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| LD50 | | 730 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |

Acute dermal toxicity

No data available

Acute inhalational toxicity

| No | Substance name | CAS no. | EC no. |
|----------------------|----------------|---------|-----------|
| 1 | formic acid | 64-18-6 | 200-579-1 |
| LC50 | | 7.85 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |

Skin corrosion/irritation

| No | Substance name | CAS no. | EC no. |
|------------|--|-----------|-----------|
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | corrosive | | |

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

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| No | Substance name | CAS no. | EC no. |
|-------------------|----------------|-----------------|-----------|
| 1 | formic acid | 64-18-6 | 200-579-1 |
| Route of exposure | | Skin | |
| Species | | guinea pig | |
| Method | | OECD 406 | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |

| Germ cell mutagenicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| Species | | Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA | |
| Method | | OECD 471 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Reproduction toxicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| Type of examination | | oral | |
| Species | | rat | |
| Method | | OECD 416 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Carcinogenicity | | | |
|-------------------|--|--|--|
| No data available | | | |

| STOT - single exposure | | | |
|------------------------|--|--|--|
| No data available | | | |

| STOT - repeated exposure | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| Route of exposure | | oral | |
| Species | | rat | |
| Method | | OECD 408 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are met. | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| Route of exposure | | inhalational | |
| NOAEC | | 0.122 | mg/l |
| Duration of exposure | | 13 | week/s |
| Species | | rat | |
| Method | | OECD 413 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are met. | |

| Aspiration hazard | | | |
|-------------------|--|--|--|
| No data available | | | |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|--------------------------|----------------|---------|--------|
| No | Substance name | CAS no. | EC no. |

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| 1 | formic acid | 64-18-6 | 200-579-1 |
|---------------------------|--------------|---------|-----------|
| LC50 | | 130 | mg/l |
| Duration of exposure | | 96 | h |
| Species with reference to | Danio rerio | | |
| Method | CAS 540-69-2 | | |
| Source | OECD 203 | | |
| | ECHA | | |

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

| No | Substance name | CAS no. | EC no. |
|----------------------|--|-----------|-----------|
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| EC50 | | 290 | µg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 211 | | |
| Source | ECHA | | |

| 2 | formic acid | 64-18-6 | 200-579-1 |
|---------------------------|---------------|---------|-----------|
| EC50 | | 365 | mg/l |
| Duration of exposure | | 48 | h |
| Species with reference to | Daphnia magna | | |
| Method | CAS 540-69-2 | | |
| Source | OECD 202 | | |
| | ECHA | | |

Toxicity to Daphnia (chronic)

| No | Substance name | CAS no. | EC no. |
|----------------------|--|-----------|-----------|
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| NOEC | | 100 | µg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Daphnia magna | | |
| Method | OECD 211 | | |
| Source | ECHA | | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| NOEC | >= | 100 | mg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Daphnia magna | | |
| Method | OECD 211 | | |
| Source | ECHA | | |

Toxicity to algae (acute)

| No | Substance name | CAS no. | EC no. |
|---------------------------|--|------------|-----------|
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| EC50 | | 320 - 1000 | µg/l |
| Duration of exposure | | 72 | h |
| Species | Desmodesmus subspicatus | | |
| Method | OECD 201 | | |
| Source | ECHA | | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| EC50 | > | 1000 | mg/l |
| Duration of exposure | | 72 | h |
| Species with reference to | Desmodesmus subspicatus | | |
| Method | CAS 590-29-4 | | |
| Source | OECD 201 | | |
| | ECHA | | |

Toxicity to algae (chronic)

No data available

Bacteria toxicity

| No | Substance name | CAS no. | EC no. |
|----|----------------|---------|-----------|
| 1 | formic acid | 64-18-6 | 200-579-1 |

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| | | |
|----------------------|------------------|--------|
| NOEC | 72 | mg/l |
| Duration of exposure | 13 | day(s) |
| Species | activated sludge | |
| Method | 92/69/EEC, C.3. | |
| Source | ECHA | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|-----------------------|------------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | formic acid | 64-18-6 | 200-579-1 |
| Type | | aerobic biodegradation | |
| Value | | 100 | % |
| Duration | | 14 | day(s) |
| Method | OECD 301 C | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |

| Abiotic Degradation | | | |
|-----------------------|------------------|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | formic acid | 64-18-6 | 200-579-1 |
| Type | | Hydrolysis | |
| Half-life | | 119 | h |
| pH value | | 7 | |
| Reference temperature | | 50 | °C |
| Method | 440/2008/EC C.7. | | |
| Source | ECHA | | |

12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water | | | |
|--|--|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | (Z)-N-9-octadecenylpropane-1,3-diamine | 7173-62-8 | 230-528-9 |
| log Pow | | 0.03 | |
| Reference temperature | | 25.7 | °C |
| Method | OECD 123 | | |
| Source | ECHA | | |
| 2 | formic acid | 64-18-6 | 200-579-1 |
| log Pow | | -2.1 | |
| Reference temperature | | 23 | °C |
| Method | 92/69/EEC, A.8 | | |
| Source | ECHA | | |

12.4 Mobility in soil

| Mobility in soil | | | |
|-----------------------|----------------|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | formic acid | 64-18-6 | 200-579-1 |
| log Koc | < | 1.25 | |
| Reference temperature | | 23 | °C |
| Method | OECD 121 | | |
| Source | ECHA | | |

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

| Other information |
|---|
| Do not discharge product unmonitored into the environment. |
| Do not discharge into the drains or waters and do not store on public depositories. |

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Product

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

| | |
|---------------------------|--|
| Class | 8 |
| Classification code | C9 |
| Packing group | II |
| Hazard identification no. | 80 |
| UN number | UN1760 |
| Proper shipping name | CORROSIVE LIQUID, N.O.S. |
| Technical name | (Z)-N-9-octadecenylpropane-1,3-diamine formic acid |
| Tunnel restriction code | E |
| Label | 8 |

14.2 Transport IMDG

| | |
|----------------------|--|
| Class | 8 |
| Packing group | II |
| UN number | UN1760 |
| Proper shipping name | CORROSIVE LIQUID, N.O.S. |
| Technical name | (Z)-N-9-octadecenylpropane-1,3-diamine formic acid |
| EmS | F-A, S-B |
| Label | 8 |

14.3 Transport ICAO-TI / IATA

| | |
|----------------------|--|
| Class | 8 |
| Packing group | II |
| UN number | UN1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Technical name | (Z)-N-9-octadecenylpropane-1,3-diamine formic acid |
| Label | 8 |

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

EC safety data sheet

Trade name: KRONES colclean CG 3011

Current version : 1.0.0, issued: 08.11.2019

Replaced version: -, issued: -

Region: GB

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

| | |
|---|------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. | No 3 |
|---|------|

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

| | |
|--|----|
| This product is subject to Part I of Annex I, risk category: | E1 |
|--|----|

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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