

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

Other means of identification : Tribissen 48% (A005320)

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

Use of the Sub-stance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

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

Company : MSD  
20 Spartan Road  
1619 Spartan, South Africa

Telephone : +27119239300

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

**1.4 Emergency telephone number**

+1-908-423-6000

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**





|  |  |
|--|--|
| Skin corrosion, Sub-category 1A                                | H314: Causes severe skin burns and eye damage.                                   |
| Serious eye damage, Category 1                                 | H318: Causes serious eye damage.   |
| Respiratory sensitisation, Category 1                          | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Reproductive toxicity, Category 2                              | H361d: Suspected of damaging the unborn child.                                   |
| Specific target organ toxicity - single exposure, Category 3   | H335: May cause respiratory irritation.  |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure.         |
| Short-term (acute) aquatic hazard, Category 1                  | H400: Very toxic to aquatic life.  |
| Long-term (chronic) aquatic hazard, Category 1                 | H410: Very toxic to aquatic life with long lasting effects.                      |

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

|                                |   |   |
|--------------------------------|---|---|
| Hazard pictograms              | : |      |
| Signal word                    | : | Danger  |
| Hazard statements              | : | H314 Causes severe skin burns and eye damage.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 May cause respiratory irritation.<br>H361d Suspected of damaging the unborn child.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects.  |
| Supplemental Hazard Statements | : | EUH071 Corrosive to the respiratory tract.  |
| Precautionary statements       | : | <b>Prevention:</b><br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br><br><b>Response:</b><br>P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.<br>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.<br>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.<br>P391 Collect spillage. |

Hazardous components which must be listed on the label:

sulfadiazine  
Trimethoprim  
Sodium hydroxide

### 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.

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Version 14.0      Revision Date: 17.06.2025      SDS Number: 508653-00030      Date of last issue: 14.04.2025  
 Date of first issue: 10.02.2016

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name       | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|---------------------|---|--|--------------------------|
| sulfadiazine        | 68-35-9<br>200-685-8                                  | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1;<br>H334<br>STOT SE 3; H335<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | >= 30 - < 50             |
| Trimethoprim        | 738-70-5<br>212-006-2                                 | Acute Tox. 4; H302<br>Repr. 2; H361d<br>STOT RE 1; H372<br>(Bone marrow)<br>Aquatic Chronic 2;<br>H411   | >= 3 - < 10              |
| Sodium hydroxide    | 1310-73-2<br>215-185-5<br>011-002-00-6                | Met. Corr. 1; H290<br>Skin Corr. 1A;<br>H314<br>Eye Dam. 1; H318   | >= 5 - < 10              |
| 2,2'-Iminodiethanol | 111-42-2<br>203-868-0<br>603-071-00-1                 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Repr. 2; H361<br>STOT RE 2; H373<br>(Kidney, Blood, Liver, Nervous system)  | >= 0,1 - < 1             |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
 When symptoms persist or in all cases of doubt seek medical

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

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advice.

- |                            |   |  |
|----------------------------|---|--|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).  |
| If inhaled                 | : | If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get medical attention immediately.  |
| In case of skin contact    | : | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Get medical attention immediately.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact     | : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention immediately.   |
| If swallowed               | : | If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.      |

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

- |       |   |  |
|-------|---|--|
| Risks | : | Causes digestive tract burns.<br>Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).<br><br>Causes serious eye damage.<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>May cause respiratory irritation.<br>Suspected of damaging the unborn child.<br>May cause damage to organs through prolonged or repeated exposure.<br>Causes severe burns.<br>Corrosive to the respiratory tract. |
|-------|---|--|

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

- |           |   |   |
|-----------|---|---|
| Treatment | : | Treat symptomatically and supportively. |
|-----------|---|---|

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
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| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

---

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Metal oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

**6.2 Environmental precautions**

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- |                         |   |   |
|-------------------------|---|---|
| Technical measures      | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.   |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation.   |
| Advice on safe handling | : | Do not get on skin or clothing.<br>Do not breathe mist or vapours.<br>Do not swallow.<br>Do not get in eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep container tightly closed.<br>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers.<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures        | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.<br>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.  |

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

- |   |   |  |
|---|---|--|
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. |
| Advice on common storage                      | : | Do not store with the following product types:   |

# Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

Version 14.0      Revision Date: 17.06.2025      SDS Number: 508653-00030      Date of last issue: 14.04.2025  
Date of first issue: 10.02.2016

Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

## 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.   | Value type (Form of exposure)           | Control parameters            | Basis    |
|---|-----------|---|-------------------------------|----------|
| sulfadiazine  | 68-35-9   | TWA                                     | 2 mg/m <sup>3</sup> (OEB 1)   | Internal |
| Trimethoprim  | 738-70-5  | TWA                                     | 400 µg/m <sup>3</sup> (OEB 2) | Internal |
| Sodium hydroxide  | 1310-73-2 | OEL- RL STEL/C                          | 4 mg/m <sup>3</sup>           | ZA OEL   |
| Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents   |           |   |                               |          |
| 2,2'-Iminodiethanol   | 111-42-2  | OEL-RL (inhala-ble fraction and vapour) | 2 mg/m <sup>3</sup>           | ZA OEL   |
| Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcinogenicity, which is based on GHS categorisation, including category 1A, 1B |           |   |                               |          |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name      | End Use   | Exposure routes | Potential health effects   | Value                   |
|---------------------|-----------|-----------------|----------------------------|-------------------------|
| Sodium hydroxide    | Consumers | Inhalation      | Long-term local effects    | 1 mg/m <sup>3</sup>     |
|                     | Workers   | Inhalation      | Long-term local effects    | 1 mg/m <sup>3</sup>     |
| 2,2'-Iminodiethanol | Workers   | Inhalation      | Long-term systemic effects | 0,75 mg/m <sup>3</sup>  |
|                     | Workers   | Inhalation      | Long-term local effects    | 0,5 mg/m <sup>3</sup>   |
|                     | Workers   | Skin contact    | Long-term systemic effects | 0,13 mg/kg bw/day       |
|                     | Consumers | Inhalation      | Long-term systemic effects | 0,125 mg/m <sup>3</sup> |
|                     | Consumers | Inhalation      | Long-term local effects    | 0,125 mg/m <sup>3</sup> |
|                     | Consumers | Skin contact    | Long-term systemic effects | 0,07 mg/kg bw/day       |
|                     | Consumers | Ingestion       | Long-term systemic effects | 0,06 mg/kg bw/day       |

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

Version 14.0      Revision Date: 17.06.2025      SDS Number: 508653-00030      Date of last issue: 14.04.2025  
Date of first issue: 10.02.2016

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name      | Environmental Compartment  | Value                         |
|---------------------|----------------------------|-------------------------------|
| sulfadiazine        | Water                      | 0,01 mg/l                     |
| Trimethoprim        | Water                      | 0,9 mg/l                      |
| 2,2'-Iminodiethanol | Fresh water                | 0,021 mg/l                    |
|                     | Freshwater - intermittent  | 0,095 mg/l                    |
|                     | Marine water               | 0,002 mg/l                    |
|                     | Sewage treatment plant     | 100 mg/l                      |
|                     | Fresh water sediment       | 0,096 mg/kg dry weight (d.w.) |
|                     | Marine sediment            | 0,009 mg/kg dry weight (d.w.) |
|                     | Soil                       | 1,63 mg/kg dry weight (d.w.)  |
|                     | Oral (Secondary Poisoning) | 1,04 mg/kg food               |

### 8.2 Exposure controls

#### Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Laboratory operations do not require special containment.

#### Personal protective equipment

|                          |   |  |
|--------------------------|---|--|
| Eye/face protection      | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| Hand protection          | : |  |
| Material                 | : | Chemical-resistant gloves  |
| Skin and body protection | : | Work uniform or laboratory coat.   |
| Respiratory protection   | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.   |
| Filter type              | : | Particulates type (P)  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                              |   |                   |
|------------------------------|---|-------------------|
| Appearance                   | : | suspension        |
| Colour                       | : | light yellow      |
| Odour                        | : | No data available |
| Odour Threshold              | : | No data available |
| pH                           | : | 10,0 - 10,5       |
| Melting point/freezing point | : | No data available |



**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

|  |   |  |
|--|---|--|
| Initial boiling point and boiling range          | : | No data available  |
| Flash point                                      | : | No data available  |
| Evaporation rate                                 | : | No data available  |
| Flammability (solid, gas)                        | : | Not applicable   |
| Flammability (liquids)                           | : | No data available  |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Vapour pressure                                  | : | No data available  |
| Relative vapour density                          | : | No data available  |
| Relative density                                 | : | No data available  |
| Density  | : | No data available  |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | No data available  |
| Partition coefficient: n-octanol/water           | : | Not applicable   |
| Auto-ignition temperature                        | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| Viscosity  |   |  |
| Viscosity, kinematic                             | : | No data available  |
| Explosive properties                             | : | Not explosive  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |

**9.2 Other information**

|               |   |                |
|---------------|---|----------------|
| Particle size | : | Not applicable |
|---------------|---|----------------|

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not classified as a reactivity hazard.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

Hazardous reactions : Can react with strong oxidizing agents.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : Oxidizing agents  
Acids

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

|| Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

**Components:****sulfadiazine:**

Acute oral toxicity : LD50 (Mouse): 1.500 mg/kg  
Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Remarks: Based on data from similar materials  
Acute toxicity (other routes of administration) : LD50 (Rat): 880 mg/kg  
Application Route: Intravenous  
LD50 (Mouse): 180 mg/kg  
Application Route: Intravenous

**Trimethoprim:**

Acute oral toxicity : LD50 (Rat): 1.500 - 5.300 mg/kg  
LD50 (Mouse): 1.910 - 7.000 mg/kg  
Acute toxicity (other routes of administration) : LD50 (Rat): 400 - 500 mg/kg  
Application Route: Intraperitoneal  
LD50 (Dog): 90 mg/kg

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

Application Route: Intravenous

LD50 (Mouse): 132 mg/kg  
Application Route: Intravenous**Sodium hydroxide:**

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

**2,2'-Iminodiethanol:**

Acute oral toxicity : LD50 (Rat): 1.600 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): > 3,35 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist**Skin corrosion/irritation**

Causes severe burns.

**Components:****sulfadiazine:**Result : Skin irritation  
Remarks : Based on data from similar materials**Sodium hydroxide:**

Result : Corrosive after 3 minutes or less of exposure

**2,2'-Iminodiethanol:**Species : Rabbit  
Result : Skin irritation**Serious eye damage/eye irritation**

Causes serious eye damage.

**Components:****sulfadiazine:**Species : Rabbit  
Result : Irritation to eyes, reversing within 7 days  
Remarks : Based on data from similar materials**Sodium hydroxide:**Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.**2,2'-Iminodiethanol:**Species : Rabbit  
Result : Irreversible effects on the eye

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

---

**Respiratory or skin sensitisation****Skin sensitisation**

|| Not classified based on available information.

**Respiratory sensitisation**

|| May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Components:****sulfadiazine:**

|           |  |
|-----------|--|
| Test Type | : Maximisation Test                    |
| Species   | : Guinea pig                           |
| Result    | : Not a skin sensitizer.               |
| Remarks   | : Based on data from similar materials |

**Trimethoprim:**

|                 |                          |
|-----------------|--------------------------|
| Test Type       | : Maximisation Test      |
| Exposure routes | : Dermal                 |
| Species         | : Guinea pig             |
| Result          | : Not a skin sensitizer. |

**Sodium hydroxide:**

|                 |  |
|-----------------|--|
| Test Type       | : Human repeat insult patch test (HRIPT) |
| Exposure routes | : Skin contact                           |
| Result          | : negative                               |

**2,2'-Iminodiethanol:**

|                 |                           |
|-----------------|---------------------------|
| Test Type       | : Maximisation Test       |
| Exposure routes | : Skin contact            |
| Species         | : Guinea pig              |
| Method          | : OECD Test Guideline 406 |
| Result          | : negative                |

**Germ cell mutagenicity**

|| Not classified based on available information.

**Components:****sulfadiazine:**

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br>Remarks: Based on data from similar materials                          |
|                       | Test Type: Chromosomal aberration<br>Test system: Chinese hamster ovary cells<br>Result: negative<br>Remarks: Based on data from similar materials |

**Trimethoprim:**

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

|                       |   |   |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br><br>Test Type: Chromosomal aberration<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Result: negative<br><br>Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)<br>Result: negative |
| Genotoxicity in vivo  | : | Test Type: Micronucleus test<br>Species: Rat<br>Result: negative<br><br>Test Type: Chromosomal aberration<br>Species: Humans<br>Result: negative  |

### 2,2'-Iminodiethanol:

|                       |   |   |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Result: negative<br><br>Test Type: Chromosome aberration test in vitro<br>Result: negative<br><br>Test Type: In vitro sister chromatid exchange assay in mammalian cells<br>Result: negative |
| Genotoxicity in vivo  | : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Skin contact<br>Result: negative   |

### Carcinogenicity

Not classified based on available information.

### Components:

#### 2,2'-Iminodiethanol:

|                   |   |  |
|-------------------|---|--|
| Species           | : | Mouse  |
| Application Route | : | Skin contact   |
| Exposure time     | : | 103 weeks  |
| Result            | : | positive   |
| Remarks           | : | The mechanism or mode of action may not be relevant in humans. |

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

|                   |                |
|-------------------|----------------|
| Species           | : Rat          |
| Application Route | : Skin contact |
| Exposure time     | : 103 weeks    |
| Result            | : negative     |

|                              |  |
|------------------------------|--|
| Carcinogenicity - Assessment | : Weight of evidence does not support classification as a carcinogen |
|------------------------------|--|

### Reproductive toxicity

|| Suspected of damaging the unborn child.

### Components:

#### sulfadiazine:

|                               |  |
|-------------------------------|--|
| Effects on foetal development | : Test Type: Development<br>Species: Mouse<br>Application Route: Oral<br>General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight<br>Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses |
|-------------------------------|--|

#### Trimethoprim:

|                               |  |
|-------------------------------|--|
| Effects on fertility          | : Test Type: Fertility<br>Species: Rat<br>Application Route: Oral<br>Fertility: NOAEL: 70 mg/kg body weight<br>Result: No effects on fertility   |
| Effects on foetal development | : Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 70 mg/kg body weight<br>Result: Effects on newborn<br>Remarks: Maternal toxicity observed. |
|                               | Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 70 mg/kg body weight<br>Result: Embryotoxic effects.<br>Remarks: Maternal toxicity observed. |
|                               | Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 15 mg/kg body weight<br>Result: Embryotoxic effects., Teratogenic effects                    |
|                               | Test Type: Development<br>Species: Hamster<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 1,7 mg/kg body weight  |

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

Result: Embryotoxic effects., No teratogenic effects

Test Type: Development

Species: Rabbit

Application Route: Oral

Developmental Toxicity: LOAEL: 100 mg/kg body weight

Result: Embryotoxic effects., No teratogenic effects

Reproductive toxicity - Assessment : Suspected of damaging the unborn child.

### 2,2'-Iminodiethanol:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 443  
Result: positive

Effects on foetal development : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 443  
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### STOT - single exposure

May cause respiratory irritation.  
Corrosive to the respiratory tract.

### Components:

#### sulfadiazine:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Components:

#### Trimethoprim:

Target Organs : Bone marrow  
Assessment : Causes damage to organs through prolonged or repeated exposure.

### 2,2'-Iminodiethanol:

Exposure routes : Ingestion  
Target Organs : Kidney, Blood, Liver, Nervous system  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Exposure routes : inhalation (dust/mist/fume)

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

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|               |   |   |
|---------------|---|---|
| Target Organs | : | Kidney, Blood   |
| Assessment    | : | Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d. |

|                 |   |  |
|-----------------|---|--|
| Exposure routes | : | Skin contact   |
| Target Organs   | : | Blood, Liver, Kidney   |
| Assessment      | : | Shown to produce significant health effects in animals at concentrations of >20 to 200 mg/kg bw. |

### Repeated dose toxicity

#### Components:

##### **Trimethoprim:**

|                   |   |  |
|-------------------|---|--|
| Species           | : | Rat  |
| NOAEL             | : | 100 mg/kg                                    |
| LOAEL             | : | 300 mg/kg                                    |
| Application Route | : | Oral   |
| Exposure time     | : | 6 Months                                     |
| Target Organs     | : | Bone marrow, Liver, Pituitary gland, Thyroid |

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Rat         |
| LOAEL             | : | 300 mg/kg   |
| Application Route | : | Oral        |
| Exposure time     | : | 3 Months    |
| Target Organs     | : | Bone marrow |

|                   |   |                |
|-------------------|---|----------------|
| Species           | : | Dog            |
| NOAEL             | : | 2,5 mg/kg      |
| LOAEL             | : | 45 mg/kg       |
| Application Route | : | Oral           |
| Exposure time     | : | 3 Months       |
| Target Organs     | : | Blood, Thyroid |

##### **2,2'-Iminodiethanol:**

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Rat, female |
| LOAEL             | : | 14 mg/kg    |
| Application Route | : | Ingestion   |
| Exposure time     | : | 13 Weeks    |

|                   |   |                             |
|-------------------|---|-----------------------------|
| Species           | : | Rat                         |
| NOAEL             | : | 0,015 mg/l                  |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time     | : | 90 Days                     |
| Method            | : | OECD Test Guideline 413     |

|                   |   |              |
|-------------------|---|--------------|
| Species           | : | Rat          |
| LOAEL             | : | 32 mg/kg     |
| Application Route | : | Skin contact |
| Exposure time     | : | 13 Weeks     |



## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

### Aspiration toxicity

|| Not classified based on available information.

### Experience with human exposure

#### Components:

#### **sulfadiazine:**

|| General Information : May cause eye, skin, and respiratory tract irritation.

#### **Trimethoprim:**

|| Ingestion : Target Organs: Bone marrow  
Symptoms: Abdominal pain, Nausea, Vomiting, skin rash, Dizziness, Headache, mental depression, confusion

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **sulfadiazine:**

|   |   |
|---|---|
| Toxicity to fish                                    | : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202   |
| Toxicity to algae/aquatic plants                    | : EC50 (Anabaena flos-aquae): 17 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Anabaena flos-aquae): 3,9 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 0,13 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Microcystis aeruginosa (blue-green algae)): 0,135 mg/l<br>Exposure time: 7 Days<br>Method: ISO 8692 |
| M-Factor (Acute aquatic toxicity)                   | : 1   |

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

Toxicity to microorganisms : EC50 : > 1.000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

NOEC : 1.000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,2 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### Trimethoprim:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 92 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 80,3 mg/l  
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l  
Exposure time: 72 h

EC50 (Anabaena flos-aquae): 253 mg/l  
Exposure time: 72 h

EC10 (Anabaena flos-aquae): 26 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC10 : 16,7 mg/l  
Exposure time: 3 hrs  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

EC50 : > 1.000 mg/l  
Exposure time: 3 hrs  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,157 mg/l  
Exposure time: 21 d  
Species: Zebrafish

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### 2,2'-Iminodiethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 460 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 30,1 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 9,5 mg/l  
Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 1,1 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1,05 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

## 12.2 Persistence and degradability

### Components:

#### **sulfadiazine:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 314

#### **Trimethoprim:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Result: Not inherently biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B

#### **2,2'-Iminodiethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 93 %

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|                 |                              |                             |   |
|-----------------|------------------------------|-----------------------------|---|
| Version<br>14.0 | Revision Date:<br>17.06.2025 | SDS Number:<br>508653-00030 | Date of last issue: 14.04.2025<br>Date of first issue: 10.02.2016 |
|-----------------|------------------------------|-----------------------------|---|

Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: The test was conducted according to guideline

**12.3 Bioaccumulative potential****Components:****sulfadiazine:**

Partition coefficient: n-octanol/water : log Pow: 0,12

**Trimethoprim:**

Partition coefficient: n-octanol/water : log Pow: 0,91

**2,2'-Iminodiethanol:**

Partition coefficient: n-octanol/water : log Pow: -2,46  
Method: OECD Test Guideline 107

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment****Product:**

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 Other adverse effects****Product:**

Endocrine disrupting potential : 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.

---

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

|                        |  |
|------------------------|--|
| Product                | : Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

If not otherwise specified: Dispose of as unused product.

**SECTION 14: Transport information****14.1 UN number**

|      |   |         |
|------|---|---------|
| ADN  | : | UN 3267 |
| ADR  | : | UN 3267 |
| RID  | : | UN 3267 |
| IMDG | : | UN 3267 |
| IATA | : | UN 3267 |

**14.2 UN proper shipping name**

|      |   |  |
|------|---|--|
| ADN  | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(Sodium hydroxide)               |
| ADR  | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(Sodium hydroxide)               |
| RID  | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(Sodium hydroxide)               |
| IMDG | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(Sodium hydroxide, sulfadiazine) |
| IATA | : | Corrosive liquid, basic, organic, n.o.s.<br>(Sodium hydroxide)               |

**14.3 Transport hazard class(es)**

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADN  | :     | 8                |
| ADR  | :     | 8                |
| RID  | :     | 8                |
| IMDG | :     | 8                |
| IATA | :     | 8                |

**14.4 Packing group**

|                              |   |     |
|------------------------------|---|-----|
| ADN                          |   |     |
| Packing group                | : | I   |
| Classification Code          | : | C7  |
| Hazard Identification Number | : | 88  |
| Labels                       | : | 8   |
| ADR                          |   |     |
| Packing group                | : | I   |
| Classification Code          | : | C7  |
| Hazard Identification Number | : | 88  |
| Labels                       | : | 8   |
| Tunnel restriction code      | : | (E) |
| RID                          |   |     |

**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

Packing group : I  
Classification Code : C7  
Hazard Identification Number : 88  
Labels : 8

**IMDG**

Packing group : I  
Labels : 8  
EmS Code : F-A, S-B

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 854  
Packing group : I  
Labels : Corrosive

**IATA (Passenger)**

Packing instruction (passenger aircraft) : 850  
Packing group : I  
Labels : Corrosive

**14.5 Environmental hazards****ADN**

Environmentally hazardous : yes

**ADR**

Environmentally hazardous : yes

**RID**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

**14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The components of this product are reported in the following inventories:

AICS : not determined

DSL : not determined

IECSC : not determined

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### 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.   |
| H334  | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335  | : May cause respiratory irritation.  |
| H361  | : Suspected of damaging fertility or the unborn child.                       |
| H361d | : Suspected of damaging the unborn child.                                    |
| H372  | : Causes damage to organs through prolonged or repeated exposure.            |
| 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.                      |
| 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   |
| Repr.                   | : Reproductive toxicity   |
| Resp. Sens.             | : Respiratory sensitisation   |
| Skin Corr.              | : Skin corrosion  |
| Skin Irrit.             | : Skin irritation   |
| STOT RE                 | : Specific target organ toxicity - repeated exposure  |
| STOT SE                 | : Specific target organ toxicity - single exposure  |
| ZA OEL                  | : South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits               |
| ZA OEL / OEL-RL         | : Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)          |
| ZA OEL / OEL- RL STEL/C | : Occupational Exposure Limit Restricted limit - Short term occupational exposure limits / ceiling limits |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

## Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

ing 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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |       |
|-------------------|-------|
| Skin Corr. 1A     | H314  |
| Eye Dam. 1        | H318  |
| Resp. Sens. 1     | H334  |
| Repr. 2           | H361d |
| STOT SE 3         | H335  |
| STOT RE 2         | H373  |
| Aquatic Acute 1   | H400  |
| Aquatic Chronic 1 | H410  |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

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**Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 14.04.2025  |
| 14.0    | 17.06.2025     | 508653-00030 | Date of first issue: 10.02.2016 |

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

ZA / EN