

| Mischindikator-Lösung für die Eptontitration 80 mg Dimidiumbromid + 40 mg Disulfinblau VN 150 / I | | | | | |
|--|--|------------------------------|--------------|--|--|
| Revision date: 16.05.2022 | Product code: 31933 | | Page 1 of 12 | | |
| SECTION 1: Identification of the substance/mixture and of the company/undertaking | | | | | |
| 1.1. Product identifier Mischindikator-Lösung für di | ie Eptontitration 80 mg Dimidiumbromid + 4 | 0 mg Disulfinblau VN 150 / I | | | |
| 1.2. Relevant identified uses of the | e substance or mixture and uses advised | against | | | |
| | stances as such or in preparations at indust omain (administration, education, entertainm | | | | |
| Uses advised against | | | | | |
| Do not use for private purpo | ses (household). | | | | |
| 1.3. Details of the supplier of the s | safety data sheet | | | | |
| Company name: | Fa. Bernd Kraft GmbH | | | | |
| Street: | Stempelstraße 6 | | | | |
| Place: | D-47167 Duisburg | | | | |
| Telephone: | 0203/5194-0 | Telefax: 0203/5194-290 | | | |
| e-mail: | info@berndkraft.de | | | | |
| Contact person: | Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 | | | |
| e-mail: | produktsicherheit@berndkraft.de | | | | |
| Internet: | www.berndkraft.de | | | | |
| Responsible Department: | Abteilung Produktsicherheit | | | | |
| 1.4. Emergency telephoneFor Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,number:Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted) | | | | | |
| Further Information | | | | | |
| This product is a mixture. REACH Registration Number see section 3. | | | | | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

2.2. Label elements

| Regulation (EC) No 1272/2008 | | | |
|------------------------------|-----|--|--|
| Signal word: | War | | |
| Pictograms: | | | |

Warning

Hazard statements H290

May be corrosive to metals.

Precautionary statements

| recautionary statements | 5 |
|-------------------------|--|
| P234 | Keep only in original packaging. |
| P390 | Absorb spillage to prevent material damage. |
| P406 | Store in a corrosion-resistant container with a resistant inner liner. |
| | |



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2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Mixtures in aqueous solution

Hazardous components

| CAS No | Chemical name | | | Quantity | |
|-----------|---|------------------------|------------------|-----------|--|
| | EC No | Index No | REACH No | | |
| | Classification (Regulation (EC) No 1272/2008) | | | | |
| 64-17-5 | ethanol | | | 1 - < 5 % | |
| | 200-578-6 | 603-002-00-5 | 01-2119457610-43 | | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 I | 1319 | · | | |
| 7664-93-9 | sulphuric acid | | | 1 - < 5 % | |
| | 231-639-5 | 016-020-00-8 | 01-2119458838-20 | | |
| | Met. Corr. 1, Skin Corr. 1A, Eye | Dam. 1; H290 H314 H318 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No Chemical name | | Quantity | |
|-----------|---|--|-----------|--|
| | Specific Conc. Limits, M-factors and ATE | | | |
| 64-17-5 | 200-578-6 ethanol | | | |
| | inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100 | | | |
| 7664-93-9 | 231-639-5 | sulphuric acid | 1 - < 5 % | |
| | oral: LD50 = 21 Eye Irrit. 2; H31 | 40 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15 9: >= 5 - < 15 | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.



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

Irritant

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Sulphur oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.



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Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Corrosive to metals. Unsuitable container/equipment material: Metal The product develops hydrogen in an aqueous solution in contact with metals.

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|-----------|----------------|------|-------|---------|---------------|--------|
| 64-17-5 | Ethyl alcohol | 1000 | - | | STEL (15 min) | |
| 7664-93-9 | Sulphuric acid | - | 0.05 | | TWA (8 h) | |



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DNEL/DMEL values

| CAS No | Substance | | | | |
|---|---|----------------|----------|-----------------------|--|
| DNEL type | | Exposure route | Effect | Value | |
| 64-17-5 | ethanol | | | | |
| Worker DNEL, | long-term | inhalation | systemic | 950 mg/m³ | |
| Worker DNEL, | long-term | dermal | systemic | 343 mg/kg bw/day | |
| Consumer DN | NEL, long-term inhalation systemic 114 mg/m³ | | | | |
| Consumer DN | NEL, long-term dermal systemic 206 mg/kg bw/day | | | | |
| Consumer DN | EL, long-term | oral | systemic | 87 mg/kg bw/day | |
| 7664-93-9 | sulphuric acid | | | | |
| Worker DNEL, | long-term | inhalation | local | 0,05 mg/m³ | |
| Worker DNEL, acute inhalation local 0,1 mg/m³ | | | | 0,1 mg/m ³ | |
| DNFC using | | | | | |

PNEC values

| CAS No | Substance | |
|---------------------|---------------------------------------|-------------|
| Environmen | tal compartment | Value |
| 64-17-5 | ethanol | |
| Freshwater | | 0,96 mg/l |
| Freshwater | (intermittent releases) | 2,75 mg/l |
| Marine wate | r | 0,79 mg/l |
| Freshwater | sediment | 3,6 mg/kg |
| Marine sedi | nent | 2,9 mg/kg |
| Secondary poisoning | | 380 mg/kg |
| Micro-organ | isms in sewage treatment plants (STP) | 580 mg/l |
| Soil | | 0,63 mg/kg |
| 7664-93-9 | sulphuric acid | |
| Freshwater | | 0,003 mg/l |
| Marine wate | r | 0 mg/l |
| Freshwater sediment | | 0,002 mg/kg |
| Marine sedi | 0,002 mg/kg | |
| Micro-organ | isms in sewage treatment plants (STP) | 8,8 mg/l |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the



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supplier of these gloves.

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid |
|-----------------|-----------|
| Colour: | green |
| Odour: | odourless |

| Changes in the physical state | |
|--|---------------------|
| Melting point/freezing point: | No data available |
| Boiling point or initial boiling point and boiling range: | No data available |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Pour point: | No data available |
| No data available: | |
| Flash point: | No data available |
| Flammability | |
| Solid/liquid: | No data available |
| Gas: | No data available |
| Explosive properties No data available | |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Auto-ignition temperature: | No data available |
| Self-ignition temperature | |
| Solid: | No data available |
| Gas: | No data available |
| Decomposition temperature: | No data available |
| pH-Value: | No data available |
| Viscosity / dynamic: | No data available |
| Viscosity / kinematic: | No data available |
| Flow time: | No data available |
| Water solubility: | completely miscible |
| Solubility in other solvents No data available | |
| Partition coefficient n-octanol/water: | No data available |
| Vapour pressure: | No data available |

Test method



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| Vapour pressure: | No data available | |
| Density (at 20 °C): | 0,9992 g/cm³ | |
| Bulk density: | No data available | |
| Relative vapour density: | No data available | |
| 9.2. Other information | | |
| Information with regard to physical hazard classes Sustaining combustion: Oxidizing properties Oxidizing | 5 | UN Test L.2 |
| Other safety characteristics | | |
| Solvent separation test: | No data available | |
| Solvent content: | 0 | |
| Solid content: | 0 | |
| Evaporation rate: | No data available | |
| Further Information | | |
| Corrosive to metals. | | |
| SECTION 10: Stability and reactivity | | |

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Acute toxicity

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



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| CAS No | Chemical name | | | | | |
|-----------|-------------------------|---------------|-------|---------|---------------------|--|
| | Exposure route | Dose | | Species | Source | Method |
| 64-17-5 | ethanol | | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | Study report (1976) | OECD Guideline 401 |
| | inhalation (4 h) vapour | LC50 mg/l | 124,7 | Rat | Study report (1980) | OECD Guideline 403 |
| 7664-93-9 | sulphuric acid | | | | | |
| | oral | LD50 mg/kg | 2140 | Rat | ,,, | The study was performed as part of a ser |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

No data available



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| CAS No | Chemical name | | | | | | | |
|-----------|--------------------------|---------------------|---------|-----------|------------------------------------|---|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | |
| 64-17-5 | ethanol | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15400 | 96 h | Lepomis macrochirus | Bulletin of Environmental Contamination | other: EPA-660/3-75-00 9, 1975 | |
| | Acute algae toxicity | ErC50 22000 mg/l | ca. | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201 | |
| | Acute crustacea toxicity | EC50 mg/l | > 10000 | 48 h | Daphnia magna | Water Research 23(4): 495-499 (1989) | other: DIN 38412 Teil 11 | |
| | Algae toxicity | NOEC mg/l | 5400 | 5 d | Skeletonema costatum | Environ Toxicol Chem 8(5):451-455. (1989 | Study to determine the sensitivity of a | |
| | Crustacea toxicity | NOEC | 2 mg/l | 10 d | Ceriodaphnia dubia | Arch Environ Contam Toxicol 20(2):211-21 | Follows the basic methodology for the th | |
| 7664-93-9 | sulphuric acid | | | | | | | |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | Desmodesmus subspicatus | Study report (2009) | OECD Guideline 201 | |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna | Study report (2009) | OECD Guideline 202 | |
| | Fish toxicity | NOEC mg/l | 0,025 | 65 d | Jordanella floridae | Water Research Vol. 11, 612 - 626, 1977 | Groups of sexually mature flagfish | |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-17-5 | ethanol | -0,77 |
| BCF | | |

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|-----|-----------------|----------------------|
| 64-17-5 | ethanol | 1 | Cyprinus carpio | Comparative Biochemi |

12.4. Mobility in soil

There are no data available on the mixture itself.

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. There are no data available on the mixture itself.

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 data available



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Further information

Discharge into the environment must be avoided.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number or ID number: | UN 1760 |
|-----------------------------------|---|
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (sulphuric acid) |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |
| Classification code: | C9 |
| Special Provisions: | 274 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |
| Inland waterways transport (ADN) | |
| 14.1. UN number or ID number: | UN 1760 |
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (sulphuric acid) |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |
| Classification code: | C9 |
| Special Provisions: | 274 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Marine transport (IMDG) | |
| 14.1. UN number or ID number: | UN 1760 |
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (sulphuric acid) |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |
| Special Provisions: | 223, 274 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-A, S-B |
| Air transport (ICAO-TI/IATA-DGR) | |

Air transport (ICAO-TI/IATA-DGR)



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| 14.1. UN number or ID number: | UN 1760 | |
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (sulphuric acid) | |
| 14.3. Transport hazard class(es): | 8 | |
| 14.4. Packing group: | III | |
| Hazard label: | 8 | |
| Special Provisions: | A3 A803 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y841 | |
| Excepted quantity: | E1 | |
| IATA-packing instructions - Passenger: | 852 | |
| IATA-max. quantity - Passenger: | 5 L | |
| IATA-packing instructions - Cargo: | 856 | |
| IATA-max. quantity - Cargo: | 60 L | |
| 14.5. Environmental hazards | | |
| ENVIRONMENTALLY HAZARDOUS: | Νο | |
| SECTION 15: Regulatory information | | |
| 15.1. Safety, health and environmental regul | ations/legislation specific for the substance or mixture | |
| EU regulatory information | | |
| Restrictions on use (REACH, annex XVII): | | |
| Entry 40, Entry 75 | | |
| National regulatory information | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). | enile |
| Water hazard class (D): | 1 - slightly hazardous to water | |
| SECTION 16: Other information | | |

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1.

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

| Classification | Classification procedure |
|--------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |

Relevant H and EUH statements (number and full text)

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

Further Information

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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)