

Safety Data Sheet according to Regulation (EC) Nr. 1907/2006 (REACH) and No.1272/2008 (GHS)Product: **S 0046**

Version: 04

Revision date: 15.10.2012

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Printing date: 15.10.12

1. Identification of the Substance and of the Company:

Identification of the substance: **S 0046**
5,6-Dichloro-2-[[5,6-dichloro-1-ethyl-3-(4-sulfobutyl)-benzimidazol-2-ylidene]-propenyl]-1-ethyl-3-(4-sulfobutyl)-benzimidazolium hydroxide, inner salt, sodium salt

FEW substance code: 420046
Use of the substance: Dye for research and development
Company identification: FEW Chemicals GmbH
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2. Hazards Information:**2.1. GHS-Classification:**

H-phrases: Not classified
P-phrases: P 261 - Avoid breathing dust.
P 280 - Wear protective gloves/protective clothing/eye protection/face protection.

2.2. RL 67/548/EWG:

R-phrases: Not classified.
S-phrases: S 22 – Do not breathe dust.
S 24/25 – Avoid contact with skin and eyes.

2.3. Miscellaneous:

Hazard description: Warning – substance not yet tested completely.
The substance should be handled with care when dealing with chemicals as usually.

Water hazard class: 2 Water-endangering (self-classification)
(German law)

Full text of relevant H-, P-, R-, und S-phrases in section 16.

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3. Composition/Information on Ingredients:

Chemical name: 5,6-Dichloro-2-[[5,6-dichloro-1-ethyl-3-(4-sulfobutyl)-benzimidazol-2-ylidene]-propenyl]-1-ethyl-3-(4-sulfobutyl)-benzimidazolium hydroxide, inner salt, sodium salt

Empirical formula: $C_{29}H_{33}Cl_4N_4NaO_6S_2$

Molecular weight: 762.53 g/mol

CAS-No.: 18462-64-1

EG-No.: 242-344-6

4. First-Aid Measures:

In case of inhalation: Move injured person into fresh air, keep warm and allow to rest.

In case of skin contact: Change contaminated clothing. Wash immediately with soap and plenty of water.

In case of eye contact: Rinse immediately with plenty of water for at least 15 minutes.

In case of ingestion: Rinse out mouth and then drink plenty of water.

General information: If the symptoms do not fade seek medical advice.

Information to medical advice: No data available.

5. Fire-Fighting Measures:

Suitable extinguishing media: Carbon dioxide, foam, dries extinguishing powder, water spray jet.

Special exposure hazards: Possible toxic fumes under fire conditions and at thermal decomposition: nitrogen oxides, carbon oxides, hydrogen chloride and sulfur oxides.

Special protective equipment for fire fighting: Use breathing apparatus with independent air supply (isolated).

Additional information: Dust may form explosive mixture with air.

6. Accidental Release Measures:

Personal precautions: Wear personal protection equipment. Avoid dust formation. Provide adequate ventilation.

Environmental precautions: Do not allow to enter into soil/subsoil and water.

Methods for cleaning up/ taking up: Take up mechanically. Ensure adequate ventilation.

7. Handling and Storage:

Handling: If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Avoid contact with eyes, skin and clothing. Avoid dust formation.

Storage: Keep only in the original container in a cool, well ventilated place. Protect against light.

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8. Exposure Controls and Personal Protection

Warning - substance not yet tested completely.

Occupational exposure limits resp. biological exposure limits:

Exposure limit values EC: No data available.

Occupational exposure

controls: No data available.

Personal protection equipment: Personal protective equipment to be selected depending on the risk concentration due to the specific working place.

Respiratory protection: Avoid dust inhalation. Dust mask FFP2.

Hand protection: One-time gloves; material: nitrile rubber (NBR)

Eye protection: Eye glasses with side protection.

Protective clothing: Protection coat.

General health and safety

measures: No further advices.

Environmental protection: No further advices.

9. Physical and Chemical Properties:

Appearance:

Shape: Powder

Colour: Red-violet

Odour: Odourless

Safety relevant basis data:

pH-Value: Not determined.

Melting range: Not determined.

Flammability: Not determined.

Pyrophoric properties: Not determined.

Bulk density: Not determined.

Water solubility: Soluble.

Partition coefficient n-

Octanol/Water (log P O/W): Not determined.

Viscosity: Not applicable.

10. Stability and Reactivity:

Conditions to avoid: Stable under normal temperatures and pressures.

Materials to avoid: Strong oxidizing agents, bases, acids.

Hazardous decomposition

products: Thermal decomposition can lead to the escape of carbon oxides, sulfur oxides, hydrogen chloride and nitrogen oxides.

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11. Toxicological Information:

Warning - substance not yet tested completely.

Acute effects:

Acute toxicity: No data available.

Sub-acute oral toxicity: No data available.

Experiences made in practice: No specific experiences.

Generally remarks: No additionally notice.

12. Environmental Protection:

No data of ecological toxicity available.

Discharge into the environment must be avoided.

Ecological toxicity: No data available.

Mobility: No data available.

Persistence and degradability: No data available.

Bio accumulative potential: No data available.

Results of PBT assessment: No data available.

Other adverse effects: No further information.

13. Disposal Considerations:

Product: Dispose of waste according to applicable local, state, and federal regulations.

Waste-code according to European Waste Catalogue (EWC): Send to a hazardous waste incinerator facility under observation of official regulations.

EVA-Code 070700 wastes from MFSU of fine chemicals and chemical products n.o.s.

Packaging: Handle contaminated packaging in the same way as the substance itself.

14. Transport Information:

No dangerous good in sense of the transport regulation.

15. EU-Regulations:

Labelling according to EU-regulations:

Regulation No. 67/548/EWG

Regulation No. 1907/2006 (REACH)

GHS-(CLP)-VO No. 1272/2008

16. Other Information

Recommended restrictions on use: Only for industrial application and research and development.

H-, P-, R-, und S-phrases referring to section 2:

H-phrases: Not classified.

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P-phrases: P 261 - Avoid breathing dust.
P 280 - Wear protective gloves/protective clothing/eye protection/face protection.

R-phrases: Not classified.

S-phrases: S 22 - Dust not breath.

S 24/25 - Do not get in eyes, on skin and eyes.

Water hazard class: 2 Water-endangering (self-classification)
(German law)

Further information:

Data sources: Data arise from reference works and literature.
<http://www.baua.de>
<http://www.bmu.de>

Modifications compared with
the previous version:

Revised version according to GHS (CLP)-No. 1272/2008.

The above mentioned information describes exclusively the safety requirements of the product and are based on our present-day knowledge. They intend to give you advice about the safe handling of the product named in this safety data sheet. These information have no importance to ensure specific properties.