

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.12.2018

Version number 3

Revision: 27.04.2016

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

- **1.1 Product identifier**
- **Trade name:** *AGITAN® DF 6054*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture** *Defoamers, Anti-foaming agent*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*MÜNZING CHEMIE GmbH*  
*Münzingstrasse 2*  
*74232 Abstatt, Germany*  
*E-Mail: info@munzing.com*  
*Tel.: +49 7131 987-100*
- **Further information obtainable from:**  
*Product Safety Department*  
*E-mail (MSDS): msds@munzing.com*
- **1.4 Emergency telephone number:** *For Chemical Emergencies: CHEMTREC: +1 703 741 5970*

\* **SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements**  
*H412 Harmful to aquatic life with long lasting effects.*
- **Precautionary statements**  
*P273 Avoid release to the environment.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Additional information:**  
*Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *None.*
- **vPvB:** *None.*

\* **SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Aqueous emulsion of silicones and surfactants.*

· **Dangerous components:**

CAS: 9005-00-9 NLP: 500-017-8 Reg.nr.: 01-2119977092-34	<i>Stearyl alcohol, ethoxylated</i> <i>Aquatic Acute 1, H400; Aquatic Chronic 2, H411</i>	3-<5%
CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15	<i>2-bromo-2-nitropropane-1,3-diol</i> <i>Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335</i>	<0.05%

EN

(Contd. on page 2)

**Safety data sheet**  
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Version number 3

Revision: 27.04.2016

Trade name: AGITAN® DF 6054

(Contd. of page 1)

#### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
Product contains water and is non-combustible.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.12.2018

Version number 3

Revision: 27.04.2016

**Trade name: AGITAN® DF 6054**

(Contd. of page 2)

· **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

**CAS: 9005-00-9 Stearyl alcohol, ethoxylated**

Oral	consumer, long-term exposure, systemic effects	25 mg/kg bw/day (human)
Dermal	worker, long-term exposure, systemic effects	2,080 mg/kg bw/day (human)
	consumer, long-term exposure, systemic effects	1,250 mg/kg bw/day (human)
Inhalative	worker, long-term exposure, systemic effects	294 mg/m <sup>3</sup> (human)
	consumer, long-term exposure, local effects	87 mg/m <sup>3</sup> (human)

· **PNECs**

**CAS: 9005-00-9 Stearyl alcohol, ethoxylated**

fresh water	0.0019 mg/l (not specified)
marine water	0.0019 mg/l (not specified)
sediment (fresh water)	81.1 mg/kg (not specified)
sediment (marine water)	81.1 mg/kg (not specified)
sewage treatment plant	1.4 mg/l (not specified)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.

· **Protection of hands:**

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Neoprene gloves

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.12.2018

Version number 3

Revision: 27.04.2016

**Trade name: AGITAN® DF 6054**

(Contd. of page 3)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Fluid
- **Colour:** White
- **Odour:** Mild
- **Odour threshold:** Not determined.

· **pH-value at 20 °C:** ≈ 7 (DIN ISO 976)

· **Change in condition**

- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.

· **Flash point:** > 100 °C (DIN EN ISO 2719)

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Oxidising properties:** None.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** ≈ 1.0 g/cm<sup>3</sup> (DIN EN ISO 2811-1)

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with water:**

Emulsifiable.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

- **Dynamic at 20 °C:** < 700 mPas (DIN EN ISO 3219)
- **Kinematic:** Not determined.

· **Solvent separation test:** ≤3%

· **Solvent content:**

- **Water:** ≈ 80 %

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.12.2018

Version number 3

Revision: 27.04.2016

Trade name: AGITAN® DF 6054

(Contd. of page 4)

- **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

**CAS: 9005-00-9 Stearyl alcohol, ethoxylated**

Oral LD50 >21,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

**CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol**

Oral LD50 307 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** 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.

**SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

**CAS: 9005-00-9 Stearyl alcohol, ethoxylated**

LC50 5.6 mg/l (fish) (*Oncorhynchus mykiss* / 96 h)

**CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol**

EC50 0.4-2.8 mg/l (alga) (green alga / 72 h)

1.4 mg/l (daphnia) (*Daphnia magna* / 48 h)

LC50 41.2 mg/l (fish) (*Oncorhynchus mykiss* / 96 h)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

(Contd. on page 6)

**Safety data sheet**  
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Printing date 17.12.2018

Version number 3

Revision: 27.04.2016

**Trade name: AGITAN® DF 6054**

(Contd. of page 5)

- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Behaviour in sewage processing plants:**  
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.
- **Additional ecological information:**
- **General notes:**  
Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.  
According to the criteria of the EU-classification and labelling "dangerous for environment"(93/21/EWG) the substance/ the product has to be classified as non-hazardous for the environment.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**  
According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
  - **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **European waste catalogue**
- |          |   |
|----------|---|
| 16 03 06 | organic wastes other than those mentioned in 16 03 05 |
|----------|---|
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- |  |      |
|--|------|
| · <b>14.1 UN-Number</b>                  |      |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b>    | Void |
| · <b>14.2 UN proper shipping name</b>    |      |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b>    | Void |
| · <b>14.3 Transport hazard class(es)</b> |      |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b>    |      |
| · <b>Class</b>                           | Void |
| · <b>14.4 Packing group</b>              |      |
| · <b>ADR/RID/ADN, IMDG, IATA</b>         | Void |
| · <b>14.5 Environmental hazards:</b>     |      |
| · <b>Marine pollutant:</b>               | No   |

(Contd. on page 7)

**Safety data sheet**  
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Revision: 27.04.2016

**Trade name: AGITAN® DF 6054**

(Contd. of page 6)

- |  |  |
|--|--|
| · <b>14.6 Special precautions for user</b>                                       | <i>Not applicable.</i>                                   |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | <i>Not applicable.</i>                                   |
| · <b>Transport/Additional information:</b>                                       | <i>Not a dangerous good to the above specifications.</i> |
| · <b>UN "Model Regulation":</b>  | <i>Void</i>  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*
- **National regulations:**
- **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

- H302 Harmful if swallowed.*
- H312 Harmful in contact with skin.*
- H315 Causes skin irritation.*
- H318 Causes serious eye damage.*
- H335 May cause respiratory irritation.*
- H400 Very toxic to aquatic life.*
- H411 Toxic to aquatic life with long lasting effects.*

· **Department issuing SDS:**

*Product Safety Department  
E-Mail: [msds@munzing.com](mailto:msds@munzing.com)*

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
- IMDG: International Maritime Code for Dangerous Goods*
- IATA: International Air Transport Association*
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
- EINECS: European Inventory of Existing Commercial Chemical Substances*
- ELINCS: European List of Notified Chemical Substances*
- CAS: Chemical Abstracts Service (division of the American Chemical Society)*
- DNEL: Derived No-Effect Level (REACH)*
- PNEC: Predicted No-Effect Concentration (REACH)*
- LC50: Lethal concentration, 50 percent*
- LD50: Lethal dose, 50 percent*
- PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative*
- Acute Tox. 4: Acute toxicity – Category 4*
- Skin Irrit. 2: Skin corrosion/irritation – Category 2*
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1*
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

(Contd. on page 8)

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*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

(Contd. of page 7)

***\* Data compared to the previous version altered.***

EN