

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

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

- **1.1 Product identifier**
- **Trade name:** *AGITAN® 217*
- **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**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Additional information:**
Safety data sheet available on request.
- **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:**
hydrocarbons
mod. fatty derivates
nonionic emulsifiers

· **Dangerous components:**

<i>CAS: 64742-52-5</i> <i>EINECS: 265-155-0</i> <i>Reg.nr.: 01-2119467170-45</i>	<i>Distillates (petroleum), hydrotreated heavy naphthenic</i> <i>Asp. Tox. 1, H304</i>	<i>75-100%</i>
<i>CAS: 64742-53-6</i> <i>EINECS: 265-156-6</i> <i>Reg.nr.: 01-2119480375-34</i>	<i>Distillates (petroleum), hydrotreated light naphthenic</i> <i>Asp. Tox. 1, H304</i>	<i>10-20%</i>
<i>CAS: 107-41-5</i> <i>EINECS: 203-489-0</i> <i>Reg.nr.: 01-2119539582-35</i>	<i>2-methylpentane-2,4-diol</i> <i>Skin Irrit. 2, H315; Eye Irrit. 2, H319</i>	<i>1-<3%</i>

(Contd. on page 2)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 1)

- **SVHC** None.
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
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.
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** 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**
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**
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Protect from heat.

(Contd. on page 3)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 2)

Keep ignition sources away - Do not smoke.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **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:**

CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

ACGIH-TWA	Long-term value: 5 mg/m ³ oil mist
-----------	--

CAS: 107-41-5 2-methylpentane-2,4-diol

WEL	Short-term value: 123 mg/m ³ , 25 ppm Long-term value: 123 mg/m ³ , 25 ppm
-----	---

· **DNELs**

CAS: 107-41-5 2-methylpentane-2,4-diol

Oral	consumer, long-term exposure, systemic effects	1 mg/kg bw/day (human)
Dermal	worker, long-term exposure, systemic effects	2 mg/kg bw/day (human)
	consumer, long-term exposure, systemic effects	1 mg/kg bw/day (human)
Inhalative	worker, long-term exposure, systemic effects	14 mg/m ³ (human)
	worker, short-term exposure, local effects	98 mg/m ³ (human)
	consumer, long-term exposure, systemic effects	3.5 mg/m ³ (human)
	consumer, short-term exposure, local effects	49 mg/m ³ (human)

· **PNECs**

CAS: 107-41-5 2-methylpentane-2,4-diol

fresh water	0.429 mg/l (not specified)
marine water	0.0429 mg/l (not specified)
aqua - intermittent release	4.29 mg/l (not specified)
soil	0.11 mg/kg (not specified)
sediment (fresh water)	1.79 mg/kg (not specified)
sediment (marine water)	0.179 mg/kg (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:**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

· **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.

(Contd. on page 4)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 3)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 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).

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:** Yellow

· **Odour:** Mild

· **Odour threshold:** Not determined.

· **pH-value (20 g/l) at 20 °C:** ≈ 6 (DIN ISO 976)

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** > 180 °C

· **Flash point:** > 140 °C (DIN EN ISO 2719)

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

· **Decomposition temperature:** Not determined.

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

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

· **Lower:** ≈ 1 Vol % (01-2119467170-45)

· **Upper:** ≈ 10 Vol % (01-2119467170-45)

· **Oxidising properties** None.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** ≈ 0.91 g/cm³ (DIN EN ISO 2811-1)

· **Relative density** Not determined.

· **Vapour density** Not determined.

(Contd. on page 5)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 4)

· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Partly miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	≈ 300 mPas (DIN EN ISO 3219)
Kinematic at 40 °C:	> 20.5 mm ² /s (DIN EN ISO 51562)
· 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**
Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.
- **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: 64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
CAS: 107-41-5 2-methylpentane-2,4-diol		
Oral	LD50	3,700 mg/kg (rat)
Dermal	LD50	8,560 mg/kg (rabbit)

- **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.

EN

(Contd. on page 6)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 5)

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

LL50 >100 mg/l (alga)

EL50 >100 mg/l (fish)

CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

LL50 >100 mg/l (alga)

>100 mg/l (daphnia)

CAS: 107-41-5 2-methylpentane-2,4-diol

EC50 5,410 mg/l (daphnia) (*Daphnia magna* / 48 h)

LC50 8,510 mg/l (fish) (*Gambusia affinis* / 96 h)

IC50 429 mg/l (alga) (*Selenastrum capricornutum* / 72 h)

NOEC 200 mg/l (bacteria)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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**

07 06 08* | other still bottoms and reaction residues

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

EN

(Contd. on page 7)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

(Contd. of page 6)

SECTION 14: Transport information

· 14.1 UN-Number · ADR/RID/ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID/ADN, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID/ADN, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not a dangerous good to the above specifications.
· UN "Model Regulation":	Void

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.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (German AwSV, Self-assessment): slightly 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**
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Department issuing SDS:**
Product Safety Department
E-Mail: 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)

(Contd. on page 8)

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

Printing date 17.12.2018

Version number 1

Revision: 16.11.2016

Trade name: AGITAN® 217

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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

(Contd. of page 7)

EN