

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3

Page 1/9



Absorber 700g

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

1.1. Product identifier

Trade name/designation:

Absorber 700g

Article No.:

T407001

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

Use of the substance/mixture:

Binder

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains Limonene. May produce an allergic reaction.

Precautionary statements	
P102	Keep out of reach of children.

Precautionary statements Prevention	
P273	Avoid release to the environment.

2.3. Other hazards

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3

Page 2/9



Absorber 700g

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of substances listed below with non-hazardous admixtures.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
	Polycarboxylate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	30 %
	cationic surfactants The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	< 5 %
CAS No.: 139-08-2 EC No.: 205-352-0 REACH No.: 01-2120754638-42	miristalkonium chloride Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1 (H314) Danger M-factor (acute): 10 M-factor (chronic): 1	< 1 %
CAS No.: 5989-27-5 EC No.: 227-813-5 REACH No.: 01-2119529223-47	(R)-p-mentha-1,8-diene Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger	< 0.2 %
	Fragrances The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

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.

Following ingestion:

Do NOT induce vomiting. Call a physician immediately. Rinse mouth immediately and drink 1 glass of water.

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 media:

Adapt fire extinguishing measures to the surroundings.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3

Page 3/9



Absorber 700g

5.4. Additional information

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures:

Provide adequate ventilation. Product forms slippery coatings with water.

6.1.2. For emergency responders

No data available

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:

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

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

Protective measures

Advices on safe handling:

Avoid dust formation.

Fire prevent measures:

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep only in original packaging.

Hints on storage assembly:

Not necessary

Storage class (TRGS 510, Germany): 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store in a cool dry place. Protect from humidity and water.

7.3. Specific end use(s)

Recommendation:

Binder

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 4/9

Absorber 700g

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	33.3 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	8.3 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.222 mg/kg	① DNEL worker ② Acute - dermal, local effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.111 mg/kg	① DNEL Consumer ② Acute - dermal, local effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	4.76 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0	0.000342 mg/L	① PNEC aquatic, marine water
miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0	0.273 mg/L	① PNEC sewage treatment plant
miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0	5.61 mg/kg	① PNEC sediment, freshwater
miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0	0.561 mg/kg	① PNEC sediment, marine water
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.0054 mg/L	① PNEC aquatic, freshwater
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.00054 mg/L	① PNEC aquatic, marine water
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	1.8 mg/L	① PNEC sewage treatment plant
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	1.32 mg/kg	① PNEC sediment, freshwater
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.13 mg/kg	① PNEC sediment, marine water
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.262 mg/kg	① PNEC soil
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	3.33 mg/kg	① PNEC secondary poisoning

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 5/9

Absorber 700g

8.2.2. Personal protection equipment



Eye/face protection:

Dust protection eye glasses

Skin protection:

Use of protective gloves - Typ NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection:

Respiratory protection necessary at: dust formation

Other protection measures:

The usual precautions when handling chemicals must be observed. Do not eat, drink, smoke or snort while working. Do not inhale dust/fume/mist. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of work.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: white

Odour: fruity

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	not applicable	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	not applicable	
Evaporation rate	not applicable	
Vapour pressure	not applicable	
Density	No data available	
Bulk density	500 - 800 kg/m ³	
Water solubility	practically insoluble	
Dynamic viscosity	not applicable	
Kinematic viscosity	not applicable	

particle characteristics:

See section 3

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition when used as directed.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 6/9

Absorber 700g

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 known hazardous decomposition products.

SECTION 11: Toxicological information

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

miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0
LD₅₀ oral: 344 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

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:

Contains Limonene. May produce an allergic reaction.

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.

Additional information:

No data available

11.2. Information on other hazards

Endocrine disrupting properties:

None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0
LC₅₀: 0.791 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)
EC₅₀: 0.0164 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)
NOEC: 0.00342 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 7/9

Absorber 700g

(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5
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LC₅₀ : 0.72 mg/L 4 d (fish, <i>Pimephales promelas</i>)
--

EC₅₀ : 0.307 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)
--

EC₅₀ : 0.32 mg/L (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)

ErC₅₀ : 150 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:

water hazard class 2 obviously hazardous to water

Do not allow to enter into surface water or drains. Drinking water hazard even when small quantities leak into the subsoil. Harmful to aquatic life. Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5
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Biodegradation: Yes, rapidly

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5
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Log K_{OW} : 4.83

Bioconcentration factor (BCF) : 660
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Accumulation / Evaluation:

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

miristalkonium chloride CAS No.: 139-08-2 EC No.: 205-352-0
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Results of PBT and vPvB assessment: —
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(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5
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Results of PBT and vPvB assessment: —
--

Polycarboxylate

Results of PBT and vPvB assessment: —
--

cationic surfactants

Results of PBT and vPvB assessment: —
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Fragrances

Results of PBT and vPvB assessment: —
--

No further relevant information available.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Harmful to fish.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 8/9

Absorber 700g

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

20 01 29 *	Detergents containing hazardous substances
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*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 14	Ecotoxic
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Contaminated packaging should be emptied in the best possible way and can then be recycled after appropriate cleaning. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 20 Dec 2022

Print date: 15 Feb 2024

Version: 3



Page 9/9

Absorber 700g

DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
NOEC	No Observed Effect Concentration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available