

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 1/10

Defoamer 1I

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

1.1. Product identifier

Trade name/designation:

Defoamer 1I

Article No.:

T199001

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

Use of the substance/mixture:

Processing aid

Relevant identified uses:

Product Categories [PC]

PC 8: Biocidal product

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstalzell

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]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* 2.2. Label elements

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

Hazard statements: none

| Supplemental hazard information | |
|-------------------------------------|---|
| EUH208 | Contains Methylchloroisothiazolinon, 2-Methyl-2H-isothiazol-3-on. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |
| Precautionary statements Prevention | |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection. |
| Precautionary statements Response | |
| P302 + P352 | IF ON SKIN: Wash with plenty of water and soap. |

2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 2/10

Defoamer 1I

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures


Additional information:

Labelling for contents according to regulation (EC) No. 648/2004:

< 5% non-ionic surfactants, Preservative (2-Bromo-2-nitropropane-1,3-diol, Methylchloroisothiazolinone/methylisothiazolinone, Methylisothiazolinone, Benzisothiazolinone)

This mixture does not contain any ingredients which are hazardous to health or the environment within the meaning of Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community occupational exposure limit, classified PBT/vPvB or included in the candidate list.

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|----------------|
| CAS No.: 55965-84-9 | Reaktionsgemisch, best. aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1) The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) 100 mg/kg ATE (dermal) 50 mg/kg ATE (inhalation, vapour) 0.5 mg/L ATE (inhalation, dust/mist) 0.05 mg/L | < 0.1 Vol-% |
| CAS No.: 2682-20-4 EC No.: 220-239-6 Index No.: 613-326-00-9 | 2-methyl-2H-isothiazol-3-one Acute Tox. 2 (H330), Acute Tox. 3 (H311, H301), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1A (H317)  Danger EUH071 M-factor (acute): 10 M-factor (chronic): 1 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.0015% Acute Toxicity Estimate ATE (oral) 100 mg/kg ATE (dermal) 300 mg/kg ATE (inhalation, vapour) 0.5 mg/L ATE (inhalation, dust/mist) 0.05 mg/L | < 0.1 Vol-% |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove contaminated, saturated clothing immediately.

Following inhalation:

Provide fresh air.

In case of skin contact:

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

Take off contaminated clothing and wash it before reuse.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Rinse mouth immediately and drink 1 glass of water.

Do NOT induce vomiting.

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

No information available.

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

Treat symptomatically.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 3/10

Defoamer 1I

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Carbon dioxide, Extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide, Carbon monoxide

5.3. Advice for firefighters

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

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

General information:

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

6.1.2. For emergency responders

Personal protection equipment:

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment:

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

6.4. Reference to other sections

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 contact with skin, eyes and clothes.

Do not mix with other chemicals.

Use personal protection equipment.

When using do not eat, drink, smoke, sniff.

Fire prevent measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene

Take off contaminated clothing.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4

Page 4/10

Defoamer 1I

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed.

Hints on storage assembly:

No special measures are necessary.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Defoamer

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--|---|--|
| MAK (AT) from 25 Sept 2018 | Reaktionsgemisch, best. aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1) CAS No.: 55965-84-9 | ① 0.05 mg/m ³ ⑤ Sh |
| MAK (AT) | 2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6 | ① 0.05 mg/m ³ ⑤ Sh |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No information available.

8.2.2. Personal protection equipment



Eye/face protection:

Wear eye protection/face protection. (EN 166)

Skin protection:

Wear gloves for protection against chemicals according to EN 374. (Breakthrough time: >10 min)

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material $\geq 0,1$ mm

A list of suitable makes with detailed information on wearing time is available on request.

Diluted application solutions $\leq 1\%$:

Protective gloves may be dispensed with, provided equivalent protective measures are taken, taking into account increased skin exposure due to wet work (e.g. use of suitable skin protection ointments).

Body protection: Wear suitable work clothing.

Respiratory protection:

Usually no personal respiratory protection necessary.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 5/10

Defoamer 1I

Thermal hazards:

No further relevant information available.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

Section 6: Accidental Release Measures

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: white

Odour: characteristic

flammability: No data available

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|--------------------------|-------|----------------------|
| pH | 6.5 – 7.8 | 20 °C | |
| Melting point | ≈ 0 °C | | |
| Freezing point | ≈ 0 °C | | |
| Initial boiling point and boiling range | ≈ 100 °C | | |
| Decomposition temperature | <i>not applicable</i> | | |
| Flash point | <i>No data available</i> | | |
| Evaporation rate | <i>No data available</i> | | |
| Auto-ignition temperature | <i>No data available</i> | | |
| Upper/lower flammability or explosive limits | <i>No data available</i> | | |
| Vapour pressure | <i>No data available</i> | | |
| Vapour density | <i>No data available</i> | | |
| Density | 1.03 g/cm ³ | 20 °C | |
| Bulk density | <i>not applicable</i> | | |
| Water solubility | miscible | | |
| Dynamic viscosity | < 10 mPa·s | 25 °C | |
| Kinematic viscosity | <i>No data available</i> | | |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4

Page 6/10



Defoamer 1I

SECTION 11: Toxicological information

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

| | | |
|--|--|--|
| Reaktionsgemisch, best. aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1) | | |
| CAS No.: 55965-84-9 | | |
| | | |
| ATE (inhalation, vapour): 0.5 mg/L | | |
| ATE (inhalation, dust/mist): 0.05 mg/L | | |
| LD₅₀ oral: 64 mg/kg (Rat) | | |
| LD₅₀ dermal: 87.12 mg/kg (Rabbit) | | |
| LC₅₀ Acute inhalation toxicity (dust/mist): 0.33 mg/L 4 h (Rat) | | |
| 2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6 | | |
| ATE (inhalation, vapour): 0.5 mg/L | | |
| ATE (inhalation, dust/mist): 0.05 mg/L | | |
| LD₅₀ oral: 100 mg/kg (Rat) | | |
| LD₅₀ dermal: 300 mg/kg (Rat) | | |

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation:

Contains Methylchloroisothiazolinon, 2-Methyl-2H-isothiazol-3-on. May cause allergic reactions.

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.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

| | | |
|--|--|--|
| Reaktionsgemisch, best. aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1) | | |
| CAS No.: 55965-84-9 | | |
| | | |
| LC₅₀: >0.1 - 1 mg/L | | |
| EC₅₀: >0.1 - 1 mg/L | | |
| EC₅₀: >0.1 - 1 mg/L | | |
| 2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6 | | |
| NOEC: 2.38 mg/L (fish, Pimephales promelas (fathead minnow)) | | |
| NOEC: 0.03 mg/L (Algae/water plant, Pseudokirchneriella subcapitata) | | |
| NOEC: 0.55 mg/L (crustaceans, Daphnia magna (Big water flea)) | | |

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 7/10

Defoamer 1I

12.2. Persistence and degradability

2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6

Biodegradation: Yes, slowly

Remark: Not readily biodegradable (according to OECD criteria).

Biodegradation:

Not readily biodegradable (according to OECD criteria) 301

Additional information:

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Reaktionsgemisch, best. aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1)
CAS No.: 55965-84-9

Results of PBT and vPvB assessment: —

2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6

Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.
Delivery to an approved waste disposal company.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|----------|--------------------------------|
| 07 02 99 | Wastes not otherwise specified |
|----------|--------------------------------|

Waste code packaging

| | |
|----------|-------------------|
| 15 01 02 | Plastic packaging |
|----------|-------------------|

Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

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. |

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 8/10

Defoamer 1I

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|--|--|
| 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

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restrictions on use (REACH, Annex XVII)

Entry 75

Other regulations (EU):

This product is not assigned to a hazard category.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]

SECTION 16: Other information

16.1. Indication of changes

| | |
|-------|--|
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 8.1. | Control parameters |
| 9.1. | Information on basic physical and chemical properties |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 14.3. | Transport hazard class(es) |
| 16.1. | Indication of changes |
| 16.2. | Abbreviations and acronyms |

16.2. Abbreviations and acronyms

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| 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 |
| DNEL | derived no-effect level |

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4



Page 9/10

Defoamer 1I

| | |
|------------------|---|
| EC ₅₀ | Effective Concentration 50% |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| KG | body weight |
| LC ₅₀ | Lethal (fatal) Concentration 50% |
| LD ₅₀ | Lethal (fatal) Dose 50% |
| MAK | Maximum concentration in the workplace air (CH) |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Cooperation and Development |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PC | Product category |
| PNEC | Predicted No Effect Concentration |
| PROC | Process Category |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| SCL | Specific concentration limit |
| TRGS | Technische Regeln für Gefahrstoffe |
| UN | United Nations |
| VOC | Volatile organic compounds |
| ZNS | central nervous system |

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]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

| Hazard statements | |
|---------------------------------|---|
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| Supplemental hazard information | |
| EUH071 | Corrosive to the respiratory tract. |

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 24 Jan 2025

Version: 4

Page 10/10



Defoamer 1I

caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.