

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : D/E Neutralizing Agar with Tween  
Product code : NCM0009  
Type of product : Food Safety -- [Food Safety]  
Part Number(s) : NCM0009|400000738|700002983|NCM0009A|700002984|NCM0009B|700002986|NCM0009E

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Neogen Corporation  
620 Leshar Place  
48912 Lansing – Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP (SI 2019:720 as amended)

|                                                                |      |
|----------------------------------------------------------------|------|
| Acute toxicity (oral), Category 4                              | H302 |
| Skin corrosion/irritation, Category 2                          | H315 |
| Serious eye damage/eye irritation, Category 2                  | H319 |
| Skin sensitisation, Category 1                                 | H317 |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 |
| Full text of H- and EUH-statements: see section 16             |      |

##### Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

#### 2.2. Label elements

##### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP)



Signal word (GB CLP)

: Warning

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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contains                          | : Sodium thioglycollate; Sodium bisulfite                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hazard statements (GB CLP)        | : H302 - Harmful if swallowed.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H373 - May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                                             |
| Precautionary statements (GB CLP) | : P260 - Do not breathe dust, fume, gas, mist, vapours or spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. |

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

| Component                                                                                        |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII  | Tween 80 (9005-65-6), Sodium carbonate (497-19-8), Sodium thioglycollate (367-51-1), Sodium bisulfite (7631-90-5), Sodium thiosulfate, anhydrous (7772-98-7) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | Tween 80 (9005-65-6), Sodium carbonate (497-19-8), Sodium thioglycollate (367-51-1), Sodium bisulfite (7631-90-5), Sodium thiosulfate, anhydrous (7772-98-7) |

#### Results of Endocrine Disruptor assessment

| Component                                                                                                                                                                                                                                                                                                         |                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | Sodium thiosulfate, anhydrous(7772-98-7), Tween 80(9005-65-6), Sodium bisulfite(7631-90-5), Sodium carbonate(497-19-8), Sodium thioglycollate(367-51-1) |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                           | Product identifier                                                    | %       | Classification according to GB CLP (SI 2019:720 as amended)                                           |
|----------------------------------------------------------------|-----------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------|
| Sodium thiosulfate, anhydrous                                  | CAS-No.: 7772-98-7<br>EC-No.: 231-867-5                               | 10 – 15 | Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h)                                           |
| Tween 80                                                       | CAS-No.: 9005-65-6                                                    | 5 – 10  | Aquatic Chronic 3, H412                                                                               |
| Sodium bisulfite<br>substance with workplace exposure limit(s) | CAS-No.: 7631-90-5<br>EC-No.: 231-548-0<br>UK Index-No.: 016-064-00-8 | 1 – 5   | Acute Tox. 4 (Oral), H302 (ATE=1540 mg/kg bodyweight)                                                 |
| Sodium carbonate                                               | CAS-No.: 497-19-8<br>EC-No.: 207-838-8<br>UK Index-No.: 011-005-00-2  | 1 – 5   | Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.2 mg/l/4h)<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318 |

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| Name                  | Product identifier                     | %     | Classification according to GB CLP (SI 2019:720 as amended)                                                                                                   |
|-----------------------|----------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sodium thioglycollate | CAS-No.: 367-51-1<br>EC-No.: 206-696-4 | 1 – 5 | Acute Tox. 3 (Oral), H301 (ATE=125 mg/kg bodyweight)<br>Acute Tox. 4 (Dermal), H312 (ATE=1500 mg/kg bodyweight)<br>STOT RE 1, H372<br>Aquatic Chronic 2, H411 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                                               |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center or a doctor if you feel unwell.                                                                                                              |
| Self protection of the first-aider    | : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).                                               |

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

|                                     |                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.                                                                                     |
| Symptoms/effects after eye contact  | : Eye irritation.                                                                                                                      |
| Symptoms/effects after ingestion    | : Harmful if swallowed.                                                                                                                |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                    |
|--------------------------------|------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam.   |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.  
Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Storage temperature : 2 – 8 °C  
Packaging materials : Always store product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

##### Sodium bisulfite (7631-90-5)

##### United Kingdom - Occupational Exposure Limits

|                   |                          |
|-------------------|--------------------------|
| Local name        | Sodium hydrogen sulphite |
| WEL TWA (OEL TWA) | 5 mg/m <sup>3</sup>      |

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### Sodium bisulfite (7631-90-5)

|                      |                                                  |
|----------------------|--------------------------------------------------|
| WEL STEL (OEL STEL)* | 15 mg/m <sup>3</sup>                             |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE            |
|                      | *STEL value is calculated based on the TWA limit |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |               |
|----------------|---------------|
| Physical state | : Solid       |
| Appearance     | : Powder.     |
| Colour         | : Light blue. |

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|                                                 |                     |
|-------------------------------------------------|---------------------|
| Odour                                           | : Unpleasant odour. |
| Odour threshold                                 | : Not available     |
| pH                                              | : 7.4 – 7.8         |
| pH solution                                     | : Not available     |
| Melting point                                   | : Not available     |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : Not available     |
| Flash point                                     | : Not applicable    |
| Flammability                                    | : Not available     |
| Explosive limits                                | : Not applicable    |
| Lower explosion limit                           | : Not applicable    |
| Upper explosion limit                           | : Not applicable    |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Relative vapour density at 20°C                 | : Not applicable    |
| Relative density                                | : Not available     |
| Density                                         | : Not available     |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : Not available     |
| Viscosity, kinematic                            | : Not applicable    |
| Explosive properties                            | : Not available     |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed.                                                                                    |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met)                        |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Not classified (Based on available data, the classification criteria are not met). |

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| D/E Neutralizing Agar with Tween          |                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| ATE UK (dust, mist)                       | 10.43 mg/l/4h                                                                                                                                 |
| Sodium carbonate (497-19-8)               |                                                                                                                                               |
| LD50 oral rat                             | 2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))                                                                          |
| LD50 oral                                 | 2800 mg/kg                                                                                                                                    |
| LD50 dermal rabbit                        | > 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))                                                            |
| LD50 dermal                               | 2500 mg/kg                                                                                                                                    |
| LC50 Inhalation - Rat (Dust/Mist)         | 1.2 mg/l/4h                                                                                                                                   |
| Sodium thioglycollate (367-51-1)          |                                                                                                                                               |
| LD50 oral rat                             | 50 – 200 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral, 15 day(s)) |
| LD50 dermal rat                           | 1000 – 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Female, Experimental value, Dermal, 14 day(s))                      |
| Sodium bisulfite (7631-90-5)              |                                                                                                                                               |
| LD50 oral rat                             | 1540 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read-across, Oral, 14 day(s))                                       |
| LD50 dermal rat                           | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))                           |
| LC50 Inhalation - Rat                     | > 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s))                            |
| LC50 Inhalation - Rat (Dust/Mist)         | > 5.5 mg/l/4h                                                                                                                                 |
| Sodium thiosulfate, anhydrous (7772-98-7) |                                                                                                                                               |
| LD50 oral rat                             | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))                                 |
| LD50 dermal rabbit                        | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))               |
| LC50 Inhalation - Rat                     | > 2.6 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s))                         |
| Skin corrosion/irritation                 | : Causes skin irritation.<br>pH: 7.4 – 7.8                                                                                                    |
| Tween 80 (9005-65-6)                      |                                                                                                                                               |
| pH                                        | 5 – 7 (5 %)                                                                                                                                   |
| Sodium carbonate (497-19-8)               |                                                                                                                                               |
| pH                                        | 11.6 (1 mol/l)                                                                                                                                |
| Sodium thioglycollate (367-51-1)          |                                                                                                                                               |
| pH                                        | 7 (609.1 g/l, 20 °C, OECD 105: Water Solubility)                                                                                              |
| Sodium bisulfite (7631-90-5)              |                                                                                                                                               |
| pH                                        | 4.1 (42 %, 20 °C)                                                                                                                             |
| Sodium thiosulfate, anhydrous (7772-98-7) |                                                                                                                                               |
| pH                                        | 7.8 (10 %)                                                                                                                                    |

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 7.4 – 7.8

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|                                                  |                                                                                                                                 |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Tween 80 (9005-65-6)</b>                      |                                                                                                                                 |
| pH                                               | 5 – 7 (5 %)                                                                                                                     |
| <b>Sodium carbonate (497-19-8)</b>               |                                                                                                                                 |
| pH                                               | 11.6 (1 mol/l)                                                                                                                  |
| <b>Sodium thioglycollate (367-51-1)</b>          |                                                                                                                                 |
| pH                                               | 7 (609.1 g/l, 20 °C, OECD 105: Water Solubility)                                                                                |
| <b>Sodium bisulfite (7631-90-5)</b>              |                                                                                                                                 |
| pH                                               | 4.1 (42 %, 20 °C)                                                                                                               |
| <b>Sodium thiosulfate, anhydrous (7772-98-7)</b> |                                                                                                                                 |
| pH                                               | 7.8 (10 %)                                                                                                                      |
| Respiratory or skin sensitisation                | : May cause an allergic skin reaction.                                                                                          |
| Germ cell mutagenicity                           | : Not classified (Based on available data, the classification criteria are not met)                                             |
| Carcinogenicity                                  | : Not classified (Based on available data, the classification criteria are not met)                                             |
| <b>Sodium bisulfite (7631-90-5)</b>              |                                                                                                                                 |
| IARC group                                       | 3 - Not classifiable                                                                                                            |
| Reproductive toxicity                            | : Not classified (Based on available data, the classification criteria are not met)                                             |
| STOT-single exposure                             | : Not classified (Based on available data, the classification criteria are not met)                                             |
| STOT-repeated exposure                           | : May cause damage to organs through prolonged or repeated exposure.                                                            |
| <b>Sodium thioglycollate (367-51-1)</b>          |                                                                                                                                 |
| LOAEL (oral, rat, 90 days)                       | 60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)            |
| LOAEL (dermal, rat/rabbit, 90 days)              | 11.25 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| NOAEL (oral, rat, 90 days)                       | 20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)            |
| NOAEL (dermal, rat/rabbit, 90 days)              | ≥ 180 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| STOT-repeated exposure                           | Causes damage to organs through prolonged or repeated exposure.                                                                 |
| Aspiration hazard                                | : Not classified (Based on available data, the classification criteria are not met)                                             |
| <b>D/E Neutralizing Agar with Tween</b>          |                                                                                                                                 |
| Viscosity, kinematic                             | Not applicable                                                                                                                  |
| <b>Tween 80 (9005-65-6)</b>                      |                                                                                                                                 |
| Viscosity, kinematic                             | 462.963 – 46648.148 mm²/s                                                                                                       |
| <b>Sodium carbonate (497-19-8)</b>               |                                                                                                                                 |
| Viscosity, kinematic                             | Not applicable (solid)                                                                                                          |
| <b>Sodium thioglycollate (367-51-1)</b>          |                                                                                                                                 |
| Viscosity, kinematic                             | Not applicable (solid)                                                                                                          |
| <b>Sodium bisulfite (7631-90-5)</b>              |                                                                                                                                 |
| Viscosity, kinematic                             | Not applicable (solid)                                                                                                          |

### Other information

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met).                                    |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met).                                    |

#### Tween 80 (9005-65-6)

|                      |                            |
|----------------------|----------------------------|
| LC50 - Fish [1]      | 817.89 mg/l Source: ECOSAR |
| EC50 96h - Algae [1] | 62.072 mg/l Source: ECOSAR |

#### Sodium carbonate (497-19-8)

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)                   |
| EC50 - Crustacea [1] | 200 – 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 - Crustacea [2] | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.                                                      |
| EC50 96h - Algae [1] | 242 mg/l Source: ECOTOX                                                                                        |

#### Sodium thioglycollate (367-51-1)

|                                    |                                                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                    | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across, GLP) |
| EC50 - Crustacea [1]               | 47 mg/l (48 h, Daphnia magna, Experimental value, Locomotor effect)                                                             |
| EC50 - Other aquatic organisms [1] | 47.31 mg/l Test organisms (species):                                                                                            |
| EC50 72h - Algae [1]               | 5.07 mg/l Test organisms (species):                                                                                             |
| ErC50 algae                        | 5.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Read-across, GLP)                      |
| NOEC (chronic)                     | 3.9 mg/l Test organisms (species): Duration: '21 d'                                                                             |

#### Sodium bisulfite (7631-90-5)

|                        |                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]        | 464 – 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Lethal)                  |
| EC50 - Crustacea [1]   | 230 mg/l (48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)                                                  |
| EC50 72h - Algae [1]   | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, Growth rate) |
| NOEC (chronic)         | > 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                         |
| NOEC chronic fish      | ≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'                                       |
| NOEC chronic crustacea | > 10 mg/l                                                                                                                                  |

#### Sodium thiosulfate, anhydrous (7772-98-7)

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 510 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Read-across, Lethal)                                                      |
| EC50 - Crustacea [1] | 230 mg/l (48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)                                                  |
| EC50 72h - Algae [1] | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, Growth rate) |

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### Sodium thiosulfate, anhydrous (7772-98-7)

|                   |                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------|
| NOEC (chronic)    | > 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                   |
| NOEC chronic fish | ≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d' |

### 12.2. Persistence and degradability

#### D/E Neutralizing Agar with Tween

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### Tween 80 (9005-65-6)

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|-----------------------------------------------|

#### Sodium carbonate (497-19-8)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)        |
| ThOD                          | Not applicable (inorganic)        |

#### Sodium thioglycollate (367-51-1)

|                               |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

#### Sodium bisulfite (7631-90-5)

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|-----------------------------------------------|

#### Sodium thiosulfate, anhydrous (7772-98-7)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable                    |
| ThOD                          | Not applicable                    |
| BOD (% of ThOD)               | Not applicable                    |

### 12.3. Bioaccumulative potential

#### Tween 80 (9005-65-6)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

#### Sodium carbonate (497-19-8)

|                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -6.19 Source: Quantitative Structure Activity Relation |
| Bioaccumulative potential                       | Not bioaccumulative.                                   |

#### Sodium thioglycollate (367-51-1)

|                                                 |                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.                                                                                  |

#### Sodium bisulfite (7631-90-5)

|                           |                      |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

#### Sodium thiosulfate, anhydrous (7772-98-7)

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -4.35 Source: International Chemical Safety Cards |
| Bioaccumulative potential                       | No bioaccumulation data available.                |

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### 12.4. Mobility in soil

#### Sodium carbonate (497-19-8)

|                 |                                       |
|-----------------|---------------------------------------|
| Surface tension | No data available in the literature   |
| Ecology - soil  | Low potential for adsorption in soil. |

#### Sodium thioglycollate (367-51-1)

|                                                            |                                         |
|------------------------------------------------------------|-----------------------------------------|
| Surface tension                                            | No data available in the literature     |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.16 (log Koc, SRC PCKOCWIN v2.0, QSAR) |
| Ecology - soil                                             | Highly mobile in soil.                  |

#### Sodium bisulfite (7631-90-5)

|                 |                                       |
|-----------------|---------------------------------------|
| Surface tension | No data available in the literature   |
| Ecology - soil  | Low potential for adsorption in soil. |

### 12.5. Results of PBT and vPvB assessment

| Component                                 |                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tween 80 (9005-65-6)                      | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Sodium carbonate (497-19-8)               | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Sodium thioglycollate (367-51-1)          | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Sodium bisulfite (7631-90-5)              | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Sodium thiosulfate, anhydrous (7772-98-7) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

### 12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.                                                                                                                 |
| Additional information                     | : Do not re-use empty containers.                                                                                                                                                                                                       |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

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|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HP Code | : HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.<br>HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.<br>HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid<br>HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>Transport document description</b>   |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. National regulations

###### UK REACH Annex XVII (Restriction List)

###### UK restriction list (REACH Annex XVII)

| Reference code | Applicable on                                                         | Entry title or description                                                                                                                                                |
|----------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3(c)           | Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs. | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

###### UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

###### UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC).

###### GB PIC Regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

###### POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

###### Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

###### Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

###### Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

##### 15.1.2. Other Information

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### 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             |
| ATE     | Acute Toxicity Estimate                                                                         |
| BCF     | Bioconcentration factor                                                                         |
| BLV     | Biological limit value                                                                          |
| BOD     | Biochemical oxygen demand (BOD)                                                                 |
| BS EN   | British Standard                                                                                |
| CAS-No. | Chemical Abstracts Service number                                                               |
| COD     | Chemical oxygen demand (COD)                                                                    |
| DMEL    | Derived Minimal Effect level                                                                    |
| DNEL    | Derived-No Effect Level                                                                         |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| ED                          | Endocrine disruptor                                                          |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |

| Full text of H- and EUH-statements:    |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 3 (Oral)                    | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Dermal)                  | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Acute Tox. 4 (Oral)                    | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3                      | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1                             | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2                     |
| Met. Corr. 1                           | Corrosive to metals, Category 1                                   |
| Skin Corr. 1                           | Skin corrosion/irritation, Category 1                             |
| Skin Irrit. 2                          | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1                           | Skin sensitisation, Category 1                                    |

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| Full text of H- and EUH-statements: |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| STOT RE 1                           | Specific target organ toxicity – Repeated exposure, Category 1     |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |
| H290                                | May be corrosive to metals.                                        |
| H301                                | Toxic if swallowed.                                                |
| H302                                | Harmful if swallowed.                                              |
| H312                                | Harmful in contact with skin.                                      |
| H314                                | Causes severe skin burns and eye damage.                           |
| H315                                | Causes skin irritation.                                            |
| H317                                | May cause an allergic skin reaction.                               |
| H318                                | Causes serious eye damage.                                         |
| H319                                | Causes serious eye irritation.                                     |
| H332                                | Harmful if inhaled.                                                |
| H372                                | Causes damage to organs through prolonged or repeated exposure.    |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H411                                | Toxic to aquatic life with long lasting effects.                   |
| H412                                | Harmful to aquatic life with long lasting effects.                 |

Safety Data Sheet (SDS), UK

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.