

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

1.1. Product identifier

| | |
|-----------------|---|
| Product form | : Mixture |
| Trade name | : MacConkey Agar |
| Product code | : NCM0017 |
| Type of product | : Food Safety -- [Food Safety] |
| Part Number(s) | : NCM0017 400000745 700003012 NCM0017A 700003013 NCM0017B 700003014 NCM0017C 700003015 NCM0017E |

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 - <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)

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

| | |
|-----------------------------------|--|
| Hazard statements (GHS UK) | : H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (GHS UK) | : P273 - Avoid release to the environment. P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and international regulations. |

MacConkey Agar

Safety Data Sheet

Accordinging REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

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 | Sodium deoxycholate (302-95-4), Zinc sulfate heptahydrate (7446-20-0), Sodium cholate (361-09-1) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | Sodium deoxycholate (302-95-4), Zinc sulfate heptahydrate (7446-20-0), Sodium cholate (361-09-1) |

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 deoxycholate(302-95-4), Sodium cholate(361-09-1), Zinc sulfate heptahydrate(7446-20-0) |

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 deoxycholate | CAS-No.: 302-95-4 EC-No.: 206-132-7 | 1 – 5 | Acute Tox. 4 (Oral), H302 (ATE=1370 mg/kg bodyweight) |
| Sodium cholate | CAS-No.: 361-09-1 EC-No.: 206-643-5 | 1 – 5 | Aquatic Chronic 3, H412 |
| Zinc sulfate heptahydrate | CAS-No.: 7446-20-0 EC-No.: 231-793-3 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=1000 mg/kg bodyweight) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : 2 – 30 °C

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

No additional information available

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

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Colour | : Light red. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| pH | : 6.9 – 7.3 |
| pH solution | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flash point | : Not applicable |
| Flammability | : Not available |
| Explosive limits | : 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

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| Sodium deoxycholate (302-95-4) | |
|--------------------------------|------------------------|
| LD50 oral rat | 1370 mg/kg (Rat, Oral) |

| Zinc sulfate heptahydrate (7446-20-0) | |
|---------------------------------------|---|
| LD50 oral rat | 1710 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Anhydrous form, Oral, 14 day(s)) |
| LD50 oral | 1000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Experimental value, Dermal) |
| LD50 dermal | 2500 mg/kg |

| Sodium cholate (361-09-1) | |
|---------------------------|-------------------------------------|
| LD50 oral | 2400 mg/kg bodyweight Animal: mouse |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 6.9 – 7.3

| Sodium deoxycholate (302-95-4) | |
|--------------------------------|---------------|
| pH | 7.5 – 9 (2 %) |

| Zinc sulfate heptahydrate (7446-20-0) | |
|---------------------------------------|-----|
| pH | 4.5 |

| Sodium cholate (361-09-1) | |
|---------------------------|---------------|
| pH | 8 – 9.5 (5 %) |

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 6.9 – 7.3

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Sodium deoxycholate (302-95-4) | |
|---------------------------------------|---|
| pH | 7.5 – 9 (2 %) |
| Zinc sulfate heptahydrate (7446-20-0) | |
| pH | 4.5 |
| Sodium cholate (361-09-1) | |
| pH | 8 – 9.5 (5 %) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| 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) |
| 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) |
| Sodium deoxycholate (302-95-4) | |
| STOT-single exposure | Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| Sodium deoxycholate (302-95-4) | |
| Viscosity, kinematic | Not applicable (solid) |

Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

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) : Harmful to aquatic life with long lasting effects.

| Sodium deoxycholate (302-95-4) | |
|---------------------------------------|--|
| LC50 - Fish [1] | 1592.185 mg/l Source: ECOSAR |
| EC50 96h - Algae [1] | 968.709 mg/l Source: ECOSAR |
| Zinc sulfate heptahydrate (7446-20-0) | |
| LC50 - Fish [1] | 330 – 780 µg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Anhydrous form) |
| EC50 - Crustacea [1] | 0.095 mg/l |
| EC50 72h - Algae [1] | 0.05 – 65 mg/l Source: GESTIS |
| NOEC chronic fish | 0.343 mg/l |
| Sodium cholate (361-09-1) | |
| LC50 - Fish [1] | 45356.434 mg/l Source: Ecological Structure Activity Relationships |
| EC50 - Other aquatic organisms [1] | 35.8713 mg/l Test organisms (species): |
| EC50 72h - Algae [1] | 169.7059 mg/l Test organisms (species): |
| EC50 96h - Algae [1] | 22734.682 mg/l Source: Ecological Structure Activity Relationships |

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

12.2. Persistence and degradability

MacConkey Agar

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

Sodium deoxycholate (302-95-4)

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

Zinc sulfate heptahydrate (7446-20-0)

| | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
|-------------------------------|-----------------------------------|

| | |
|------------------------------|----------------|
| Chemical oxygen demand (COD) | Not applicable |
|------------------------------|----------------|

| | |
|------|----------------|
| ThOD | Not applicable |
|------|----------------|

| | |
|-----------------|----------------|
| BOD (% of ThOD) | Not applicable |
|-----------------|----------------|

Sodium cholate (361-09-1)

| | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
|-------------------------------|-------------------------------------|

12.3. Bioaccumulative potential

Sodium deoxycholate (302-95-4)

| | |
|---|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.24 (Estimated value) |
|---|------------------------|

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
|---------------------------|--|

Zinc sulfate heptahydrate (7446-20-0)

| | |
|----------------|--|
| BCF - Fish [1] | 59 – 242 (Cyprinus carpio, Test duration: 8 weeks) |
|----------------|--|

| | |
|----------------|--|
| BCF - Fish [2] | 59 – 242 (Cyprinus carpio, Anhydrous form) |
|----------------|--|

| | |
|---------------------------|---------------|
| Bioaccumulative potential | Bioaccumable. |
|---------------------------|---------------|

Sodium cholate (361-09-1)

| | |
|---|----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.29 (Calculated, KOWWIN) |
|---|----------------------------|

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

12.4. Mobility in soil

Sodium deoxycholate (302-95-4)

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|---|

Zinc sulfate heptahydrate (7446-20-0)

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|---|

Sodium cholate (361-09-1)

| | |
|------------------|---|
| Mobility in soil | 1140 Source: Quantitative Structure Activity Relation |
|------------------|---|

| | |
|----------------|------------------------|
| Ecology - soil | Highly mobile in soil. |
|----------------|------------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|--------------------------------|---|
| Sodium deoxycholate (302-95-4) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
|--------------------------------|---|

| | |
|---------------------------------------|---|
| Zinc sulfate heptahydrate (7446-20-0) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
|---------------------------------------|---|

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

Component

Sodium cholate (361-09-1)

This substance does not meet the PBT criteria of UK REACH regulation, annex XIII
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

No additional information available

SECTION 14: Transport information

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

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

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

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)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

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) above the 0.1% level of disclosure

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 as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

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

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

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

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 additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|--|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| 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 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302 | Harmful if swallowed. |

MacConkey Agar

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains Sodium pyruvate (113-24-6). May produce an allergic reaction. |

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.