

## Material Safety Data Sheet

---

### Information:

This PDF includes 3 different MSDS for the following items:

- AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU
- AMCO CLEAR® TURBIDITY STANDARD, 100 NTU
- AMCO CLEAR® TURBIDITY STANDARD, 800 NTU

# Material Safety Data Sheet

---

## 1. Product & Company Identification

<b>Product:</b>	AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	14.11.2018

### 1.1. Product identifier

Trade name or designation of the mixture: AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU

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

**Identified uses:** Reagent for determination of turbidity of liquids.

**Uses advised against:** None known.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### **Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

#### **Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### **Hazard summary**

Physical hazards: Not classified for physical hazards.

Health hazards: Not classified for health hazards.

Environmental hazards: Not classified for hazards to the environment.

Specific hazards: Not available.

Main symptoms: Not available.

### 2.2. Label elements

#### **Label according to Regulation (EC) No. 1272/2008 as amended**

Contains: WATER

Hazard pictograms: None.

Signal word: None.

Hazard statements: The mixture does not meet the criteria for classification.

## Material Safety Data Sheet

---

### Precautionary statements

Prevention: Not available.

Response: Not available.

Storage: Not available.

Disposal: Not available.

### Supplemental label information

None.

### 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

### 3.2. Mixtures

#### General information:

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
WATER	>99.9	7732-18-5 231-791-2	-	-	-

Classification: DSD: -

CLP: -

Other components below reportable levels 0.0103

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Material Safety Data Sheet

---

### 4. First aid measures

**General information:** Not available.

#### 4.1. Description of first aid measures

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact:** Dry skin with paper towel or similar.

**Eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion:** Get medical attention if symptoms occur.

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

Not available.

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

Treat symptomatically.

### 5. Firefighting measures

**General fire hazards:** Not available.

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Not available.

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

Not available.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters:** Wear suitable protective equipment.

**Special fire fighting procedures:** Not available.

### 6. Accidental release measures

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

**For non-emergency personnel:** No special precautions.

**For emergency responders:** Not available.

#### 6.2. Environmental precautions

No special environmental precautions required.

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

Containment of this material should not be necessary. This product is miscible in water. Flush with water. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

## Material Safety Data Sheet

---

### 7. Handling and storage

#### 7.1. Precautions for safe handling

No special precautions required.

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

Do not allow material to freeze.

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

Not available.

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures:** Follow standard monitoring procedures.

**Derived no-effect level (DNEL):** Not available.

**Predicted no effect concentrations (PNECs):** Not available.

#### 8.2. Exposure controls

**Appropriate engineering controls:** General ventilation normally adequate.

**Individual protection measures, such as personal protective equipment**

**General information:** Not available.

**Eye/face protection:** Not normally needed.

**Skin protection:**

- Hand protection: Not normally needed.

- Other Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Thermal hazards:** Not available.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls:** Not available.

## Material Safety Data Sheet

---

### 9. Physical and chemical properties

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

Appearance:	Clear.
Physical state:	Liquid.
Form:	Liquid.
Colour:	Colourless.
Odour:	Odourless.
Odour threshold:	Not available.
PH:	6.7
Melting point/freezing point:	0 °C (32 °F) estimated
Initial boiling point and boiling range:	100 °C (212 °F) approximately
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.

#### Upper/lower flammability or explosive limits

Flammability limit – lower (%):	Not available.
Flammability limit - upper (%):	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility(ies):	Solubility (water): Completely miscible. Solubility (other): Not available.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidizing properties:	Not available.

#### 9.2. Other information

Density:	1.00 g/cm <sup>3</sup> estimated
Percent volatile:	100 %
Specific gravity:	1.00 estimated

## Material Safety Data Sheet

---

### 10. Stability and Reactivity

#### 10.1. Reactivity

Not available.

#### 10.2. Chemical stability

Material is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Do not freeze.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

### 11. Toxicological information

**General information:** Not available.

#### Information on likely routes of exposure

**Inhalation:** Due to lack of data the classification is not possible.

**Skin contact:** Due to lack of data the classification is not possible.

**Eye contact:** Due to lack of data the classification is not possible.

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

**Symptoms:** Not available.

#### 11.1. Information on toxicological effects

Product	Species	Test results
AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU (CAS Mixture)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	99999 mg/kg
<b>Oral</b>		
LD50	Bird	99999 mg/kg
	Mouse	99999 mg/kg
	Rat	99999 mg/kg
TD	Rat	99999 mg/kg
TDL0	Rat	99999 mg/kg

#### Acute

#### Dermal

LD50	Rabbit	99999 mg/kg
------	--------	-------------

#### Oral

LD50	Bird	99999 mg/kg
	Mouse	99999 mg/kg
	Rat	99999 mg/kg
TD	Rat	99999 mg/kg
TDL0	Rat	99999 mg/kg

\* Estimates for product may be based on additional component data not shown.

## Material Safety Data Sheet

---

**Skin corrosion/irritation:** Due to lack of data the classification is not possible.

**Serious eye damage/eye irritation:** Due to lack of data the classification is not possible.

**Respiratory sensitisation:** Due to lack of data the classification is not possible.

**Skin sensitisation:** Due to lack of data the classification is not possible.

**Germ cell mutagenicity:** Due to lack of data the classification is not possible.

**Carcinogenicity:** Due to lack of data the classification is not possible.

**Reproductive toxicity:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - single exposure:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure:** Due to lack of data the classification is not possible.

**Aspiration hazard:** Due to lack of data the classification is not possible.

**Mixture versus substance information:** Not available.

**Other information:** This product has no known adverse effect on human health.

## 12. Ecological information

### 12.1. Toxicity

Not applicable.

### 12.2. Persistence and degradability

No data is available on the degradability of this product.

### 12.3. Bioaccumulative potential

Not available.

**Partition coefficient n-octanol/water (log K<sub>ow</sub>):** Not available.

**Bioconcentration factor (BCF):** Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

### 12.6. Other adverse effects

Not available.



## Material Safety Data Sheet

---

### 13. Disposal considerations

#### 13.1. Waste treatment methods

**Residual waste:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code:** Not available.

**Disposal methods/information:** Wash to drains with lots of water.

### 14. Transport information

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

## Material Safety Data Sheet

---

### 15. Regulatory information

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

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I:**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II:**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended:**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry:**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA:**

Not listed.

##### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation:**

Not listed.

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended:**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work:**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding:**

Not regulated.

## Material Safety Data Sheet

---

### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances:**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work:**

Not regulated.

**Directive 94/33/EC on the protection of young people at work:**

Not regulated.

### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

### National regulations

Not available.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## 16. Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

Not available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

None.

### Training information

Not available.

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# Material Safety Data Sheet

---

## 1. Product & Company Identification

<b>Product:</b>	AMCO CLEAR® TURBIDITY STANDARD, 100 NTU
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	14.11.2018

### 1.1. Product identifier

Trade name or designation of the mixture: AMCO CLEAR® TURBIDITY STANDARD, 100 NTU

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

**Identified uses:** Laboratory reference solution

**Uses advised against:** None known.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Hazard summary

Physical hazards: Not classified for physical hazards.

Health hazards: Not classified for health hazards.

Environmental hazards: Not classified for hazards to the environment.

Specific hazards: Not available.

Main symptoms: Direct contact with eyes may cause temporary irritation.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: STYRENE DIVINYLBENZENE COPOLYMER BEADS, WATER

Hazard pictograms: None.

Signal word: None.

Hazard statements: The mixture does not meet the criteria for classification.

## Material Safety Data Sheet

---

### Precautionary statements

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

### Supplemental label information

None.

### 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

### 3.2. Mixtures

#### General information:

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
WATER	90-100	7732-18-5 231-791-2	-	-	Classification: DSD: - CLP: -
STYRENE DIVINYLBENZENE COPOLYMER BEADS	<0.1	9003-70-7	-	-	Classification: DSD: - CLP: -

Other components below reportable levels < 0.1

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Material Safety Data Sheet

---

### 4. First aid measures

**General information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of first aid measures

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact:** Dry skin with paper towel or similar.

**Eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

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

Direct contact with eyes may cause temporary irritation.

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

Treat symptomatically.

### 5. Firefighting measures

**General fire hazards:** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

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

During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

## Material Safety Data Sheet

---

### 6. Accidental release measures

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

**For non-emergency personnel:** No special precautions.

**For emergency responders:** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

#### 6.2. Environmental precautions

No special environmental precautions required.

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

This product is miscible in water. Containment of this material should not be necessary. Flush with water. Never return spills to original containers for re-use.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

No special precautions required.

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

Store in original tightly closed container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

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

Not available.

## Material Safety Data Sheet

---

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures:** Follow standard monitoring procedures.

**Derived no-effect level (DNEL):** Not available.

**Predicted no effect concentrations (PNECs):** Not available.

#### 8.2. Exposure controls

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin protection

- Hand protection: Not normally needed.

- Other: Wear suitable protective clothing.

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls:** Environmental manager must be informed of all major releases.



## Material Safety Data Sheet

---

### 9. Physical and chemical properties

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

Appearance:	Cloudy
Physical state:	Liquid.
Form:	Aqueous solution.
Colour:	Colourless to white.
Odour:	Odourless.
Odour threshold:	Not available.
PH:	6.7
Melting point/freezing point:	0 °C (32 °F) estimated
Initial boiling point and boiling range:	100 °C (212 °F) estimated
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.

#### Upper/lower flammability or explosive limits

Flammability limit – lower (%):	Not available.
Flammability limit - upper (%):	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility(ies):	Solubility (water): Completely miscible. Solubility (other): Not available.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidizing properties:	Not available.

#### 9.2. Other information

Density:	1.00 g/cm <sup>3</sup> estimated
Percent volatile:	> 99.9 %
Specific gravity:	1.00 estimated

## Material Safety Data Sheet

---

### 10. Stability and Reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Material is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Contact with incompatible materials. Do not freeze.

#### 10.5. Incompatible materials

Strong oxidising agents.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

### 11. Toxicological information

**General information:** Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin contact:** No adverse effects due to skin contact are expected.

**Eye contact:** Direct contact with eyes may cause temporary irritation.

**Ingestion:** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms:** Exposure may cause temporary irritation, redness, or discomfort.

#### 11.1. Information on toxicological effects

Product	Species	Test results
AMCO CLEAR® TURBIDITY STANDARD, 100 NTU (CAS Mixture)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	99999 mg/kg
<b>Oral</b>		
LD50	Bird	99999 mg/kg
	Mouse	99999 mg/kg
	Rat	99999 mg/kg
TD	Rat	99999 mg/kg
TDL0	Rat	99999 mg/kg

\* Estimates for product may be based on additional component data not shown.

## Material Safety Data Sheet

---

**Skin corrosion/irritation:** Due to lack of data the classification is not possible.

**Serious eye damage/eye irritation:** Due to lack of data the classification is not possible.

**Respiratory sensitisation:** Due to lack of data the classification is not possible.

**Skin sensitisation:** Due to lack of data the classification is not possible.

**Germ cell mutagenicity:** Due to lack of data the classification is not possible.

**Carcinogenicity:** Due to lack of data the classification is not possible.

**Reproductive toxicity:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - single exposure:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure:** Due to lack of data the classification is not possible.

**Aspiration hazard:** Due to lack of data the classification is not possible.

**Mixture versus substance information:** No information available.

**Other information:** Not available.

## 12. Ecological information

### 12.1. Toxicity

Not applicable.

### 12.2. Persistence and degradability

No data is available on the degradability of this product.

### 12.3. Bioaccumulative potential

No data available.

**Partition coefficient n-octanol/water (log K<sub>ow</sub>):** Not available.

**Bioconcentration factor (BCF):** Not available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

Not available.

### 12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Material Safety Data Sheet

---

### 13. Disposal considerations

#### 13.1. Waste treatment methods

**Residual waste:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code:** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information:** Wash to drains with lots of water. Dispose in accordance with all applicable regulations.

**Special precautions:** Dispose in accordance with all applicable regulations.

### 14. Transport information

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

## Material Safety Data Sheet

---

### 15. Regulatory information

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

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I:**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II:**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended:**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry:**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA:**

Not listed.

##### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation:**

Not listed.

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended:**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work:**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding:**

Not regulated.

## Material Safety Data Sheet

---

### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances:**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work:**

Not regulated.

**Directive 94/33/EC on the protection of young people at work:**

Not regulated.

### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

### National regulations

Follow national regulation for work with chemical agents.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## 16. Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

None.

### Training information

Follow training instructions when handling this material.

### Disclaimer

We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

# Material Safety Data Sheet

---

## 1. Product & Company Identification

<b>Product:</b>	AMCO CLEAR® TURBIDITY STANDARD, 800 NTU
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	14.11.2018

### 1.1. Product identifier

Trade name or designation of the mixture: AMCO CLEAR® TURBIDITY STANDARD, 100 NTU

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

**Identified uses:** Reagent for determination of turbidity of liquids.

**Uses advised against:** None known.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Hazard summary

Physical hazards: Not classified for physical hazards.

Health hazards: Not classified for health hazards.

Environmental hazards: Not classified for hazards to the environment.

Specific hazards: None known.

Main symptoms: Direct contact with eyes may cause temporary irritation.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: STYRENE DIVINYLBENZENE COPOLYMER BEADS, WATER

Hazard pictograms: None.

Signal word: None.

Hazard statements: The mixture does not meet the criteria for classification.

## Material Safety Data Sheet

---

### Precautionary statements

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

### Supplemental label information

None.

### 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

### 3.2. Mixtures

#### General information:

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
WATER	90-100	7732-18-5 231-791-2	-	-	Classification: DSD: - CLP: -
STYRENE DIVINYLBENZENE COPOLYMER BEADS	<0.1	9003-70-7	-	-	Classification: DSD: - CLP: -

Other components below reportable levels < 0.1

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.



## Material Safety Data Sheet

---

### 4. First aid measures

**General information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of first aid measures

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact:** Dry skin with paper towel or similar.

**Eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

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

Direct contact with eyes may cause temporary irritation.

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

Treat symptomatically.

### 5. Firefighting measures

**General fire hazards:** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

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

During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

## Material Safety Data Sheet

---

### 6. Accidental release measures

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

**For non-emergency personnel:** No special precautions.

**For emergency responders:** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

#### 6.2. Environmental precautions

No special environmental precautions required.

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

This product is miscible in water. Containment of this material should not be necessary. Flush with water. Never return spills to original containers for re-use.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

No special precautions required.

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

Store in original tightly closed container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

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

Not available.

## Material Safety Data Sheet

---

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures:** Follow standard monitoring procedures.

**Derived no-effect level (DNEL):** Not available.

**Predicted no effect concentrations (PNECs):** Not available.

#### 8.2. Exposure controls

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin protection

- Hand protection: Not normally needed.

- Other: Wear suitable protective clothing.

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls:** Environmental manager must be informed of all major releases.

## Material Safety Data Sheet

---

### 9. Physical and chemical properties

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

Appearance:	Cloudy
Physical state:	Liquid.
Form:	Aqueous solution.
Colour:	Colourless to white.
Odour:	Odourless.
Odour threshold:	Not available.
PH:	6.7
Melting point/freezing point:	0 °C (32 °F) estimated
Initial boiling point and boiling range:	100 °C (212 °F) estimated
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.

#### Upper/lower flammability or explosive limits

Flammability limit – lower (%):	Not available.
Flammability limit - upper (%):	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility(ies):	Solubility (water): Completely miscible. Solubility (other): Not available.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidizing properties:	Not available.

#### 9.2. Other information

Density:	1.00 g/cm <sup>3</sup> estimated
Percent volatile:	> 99.9 %
Specific gravity:	1.00 estimated

## Material Safety Data Sheet

---

### 10. Stability and Reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Material is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Contact with incompatible materials. Do not freeze.

#### 10.5. Incompatible materials

Strong oxidising agents.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

### 11. Toxicological information

**General information:** Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin contact:** No adverse effects due to skin contact are expected.

**Eye contact:** Direct contact with eyes may cause temporary irritation.

**Ingestion:** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms:** Exposure may cause temporary irritation, redness, or discomfort.

#### 11.1. Information on toxicological effects

Product	Species	Test results
AMCO CLEAR® TURBIDITY STANDARD, 100 NTU (CAS Mixture)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	99999 mg/kg
<b>Oral</b>		
LD50	Bird	99999 mg/kg
	Mouse	99999 mg/kg
	Rat	99999 mg/kg
TD	Rat	99999 mg/kg
TDL0	Rat	99999 mg/kg

\* Estimates for product may be based on additional component data not shown.

## Material Safety Data Sheet

---

**Skin corrosion/irritation:** Due to lack of data the classification is not possible.

**Serious eye damage/eye irritation:** Due to lack of data the classification is not possible.

**Respiratory sensitisation:** Due to lack of data the classification is not possible.

**Skin sensitisation:** Due to lack of data the classification is not possible.

**Germ cell mutagenicity:** Due to lack of data the classification is not possible.

**Carcinogenicity:** Due to lack of data the classification is not possible.

**Reproductive toxicity:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - single exposure:** Due to lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure:** Due to lack of data the classification is not possible.

**Aspiration hazard:** Due to lack of data the classification is not possible.

**Mixture versus substance information:** No information available.

**Other information:** Not available.

## 12. Ecological information

### 12.1. Toxicity

Not applicable.

### 12.2. Persistence and degradability

No data is available on the degradability of this product.

### 12.3. Bioaccumulative potential

No data available.

**Partition coefficient n-octanol/water (log K<sub>ow</sub>):** Not available.

**Bioconcentration factor (BCF):** Not available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

Not available.

### 12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Material Safety Data Sheet

---

### 13. Disposal considerations

#### 13.1. Waste treatment methods

**Residual waste:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code:** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information:** Wash to drains with lots of water. Dispose in accordance with all applicable regulations.

**Special precautions:** Dispose in accordance with all applicable regulations.

### 14. Transport information

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

## Material Safety Data Sheet

---

### 15. Regulatory information

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

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I:**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II:**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended:**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended:**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry:**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA:**

Not listed.

##### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation:**

Not listed.

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended:**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work:**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding:**

Not regulated.



## Material Safety Data Sheet

---

### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances:**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work:**

Not regulated.

**Directive 94/33/EC on the protection of young people at work:**

Not regulated.

### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

### National regulations

Follow national regulation for work with chemical agents.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## 16. Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

None.

### Training information

Follow training instructions when handling this material.

### Disclaimer

We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.