

Issuing Date 17-Aug-2016

## **SAFETY DATA SHEET**

**Revision Number 2** 

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

EGHS / English

Revision Date 28-Feb-2017

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name AddiCool

Product Code(s) 109006

(M)SDS Number 1344195\_E

**Chemical name** 

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

**Recommended Use** Laboratory Use Only.

**Uses advised against** No information available.

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

Manufacturer ITW Test & Measurement GmbH

Manufacturer Address Boschstraße 10

73734 Esslingen am Neckar / GERMANY

www.buehler-met.de www.buehler.fr www.buehler.co.uk

**Phone number** +49 (0) 711 4904690-0

E-mail Address lab.eu@buehler.com

#### 1.4. Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Americas: +1 760 476 3962 Europe: +1 760 476 3961

Middle East/Africa: +1 760 476 3959 Asia Pacific: +1 760 476 3960

UK: +44 8 08 189 0979

## **Section 2: HAZARDS IDENTIFICATION**

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



#### Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2. Label elements



## Signal word Warning

#### **Hazard Statements**

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### 2.3. Other hazards

No information available

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according	REACH
				to Regulation (EC) No.	registration
				1272/2008 [CLP]	number
Water	-	7732-18-5	50 - 70%	No data available	
Triethanolamine	203-049-8	102-71-6	15 - 25%	No data available	
Benzotriazole	-	95-14-7	15 - 25%	No data available	

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

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates



Water	7732-18-5	-
Benzotriazole	95-14-7	-
Triethanolamine	102-71-6	-

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions

see a physician.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## **Section 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

## Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation.

6.2. Environmental precautions



**Environmental precautions** Should not be released into the environment. See Section 12 for additional

Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

**Risk Management Methods** 

(RMM)

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
Triethanolamine 102-71-6	-	-	-	TWA: 5 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Triethanolamine 102-71-6	-	TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 0.5 ppm TWA: 3.1 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Triethanolamine 102-71-6	STEL 1.6 ppm STEL 10 mg/m <sup>3</sup> TWA: 0.8 ppm TWA: 5 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

#### 8.2. Exposure controls



## Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing.

**Environmental exposure** 

controls

No information available.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state Liquid **Appearance** Tan

Odor Characteristic

Color No information available **Odor Threshold** No information available

Property Values Remarks Method

pН

No data available Melting / freezing point No data available None known Boiling point / boiling range No data available None known **Flash Point** No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit No data available

Lower flammability limit No data available

Vapor pressure No data available None known Vapor density No data available None known

Relative density 1.142 **Water Solubility** Miscible

Solubility(ies) No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known No data available None known Kinematic viscosity Viscosity No data available None known

#### 9.2. Other information

No information available **Softening Point** Molecular Weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk Density** No information available **Particle Size** No information available **Particle Size Distribution** No information available

## Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability



Stable under normal conditions.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

## 10.3. Possibility of hazardous reactions

**Possibility of Hazardous** 

None under normal processing.

Reactions

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

None under normal use conditions.

## **Section 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Information on toxicological effects

**Symptoms** No information available.

Numerical measures of toxicity

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 2,635.00 mg/kg **ATEmix** 6.21 mg/L

(inhalation-dust/mist)

#### Unknown acute toxicity

50 % of the mixture consists of ingredient(s) of unknown toxicity

20 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

50 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)



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50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Triethanolamine	= 4190 mg/kg (Rat)	> 16 mL/kg ( Rat ) > 20	-
		mL/kg(Rabbit)	
Benzotriazole	= 560 mg/kg ( Rat )	> 1 g/kg ( Rat )	= 1910 mg/m <sup>3</sup> ( Rat ) 3 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye

irritation

No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

## **12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
			Microorganisms	(Water Flea)
Triethanolamine	96h EC50: = 169 mg/L	96h LC50: 10600 -	=	24h EC50: = 1386
	(Desmodesmus	13000 mg/L		mg/L
	subspicatus) 72h	(Pimephales		
	EC50:	promelas) 96h LC50: >		
	= 216 mg/L	1000 mg/L		
	(Desmodesmus	(Pimephales		
	subspicatus)	promelas) 96h LC50:		
		450 - 1000 mg/L		
		(Lepomis macrochirus)		
Benzotriazole	96h EC50: = 15.4	96h LC50: = 39 mg/L	-	48h EC50: = 141.6
	mg/L	(Oncorhynchus		mg/L



(freshwater algae)	mykiss)	

## 12.2. Persistence and degradability

Persistence and Degradability No information available.

#### 12.3. Bioaccumulative potential

#### Bioaccumulation

Chemical name	Log Pow
Triethanolamine	-2.53

#### 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Triethanolamine	Not applicable
Benzotriazole	Not applicable

## 12.6. Other adverse effects

Other adverse effects No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

**Contaminated packaging** No information available.

## **Section 14: TRANSPORT INFORMATION**

IMDG/IMONOT REGULATED14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Marine PollutantNot applicable

14.6 Special Provisions None

**14.7 Transport in bulk** No information available

according to Annex II of MARPOL and the IBC Code

RID NOT REGULATED



14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

**14.6 Special Provisions** None

ADR
14.1 UN-No.
14.2 Proper Shipping Name
14.3 Hazard Class
14.4 Packing Group
14.5 Environmental hazard
14.6 Special Provisions

NOT REGULATED

IATANOT REGULATED14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNON REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

14.6 Special Provisions None

## **Section 14: TRANSPORT INFORMATION**

IMDG/IMONOT REGULATED14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Marine PollutantNot applicable14.6 Special ProvisionsNone

**14.7 Transport in bulk** No information available

according to Annex II of MARPOL and the IBC Code

RIDNOT REGULATED14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable14.6 Special ProvisionsNone

ADR
14.1 UN-No.
14.2 Proper Shipping Name
14.3 Hazard Class
14.4 Packing Group
14.5 Environmental hazard
NOT REGULATED

14.6 Special Provisions None



IATANOT REGULATED14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNON REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

14.6 Special Provisions None

## **Section 15: REGULATORY INFORMATION**

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

## National regulations

#### France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Triethanolamine	RG 49 RG 49,RG 49bis	-
102-71-6		

Water hazard class (WGK) Hazardous to water/Class 1

#### **European Union**

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

## Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### **Persistent Organic Pollutants**

Not applicable.

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

## **International Inventories**

Contact supplier for inventory compliance status. **TSCA** Contact supplier for inventory compliance status. **DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. KECL Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS** 

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical



#### Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

No information available.

## **Section 16: OTHER INFORMATION**

## Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization:

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

#### Key literature references and sources for data

www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

#### Disclaimer

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**End of Safety Data Sheet** 

