

SAFETY DATA SHEET

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

Revision Number 2 Issuing Date 02-Sep-2016 Revision Date 13-Apr-2017

EGHS / English

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

1.1. Product identifier

Product Name UltraMet 2 Cleaning Solution

Product Code(s) 75-6000-032

(M)SDS Number 1347102_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

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH210 - Safety data sheet available on request

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Water	-	7732-18-5	70 - 80%	No data available	
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	-	68585-47-7	10 - 20%	No data available	
Alkyl (C10-16) dimethylamine oxide	-	70592-80-2	5 - 10%	No data available	
.alphaAlkyl (C10-16) .omegahydroxypoly (oxyethylene) sulfate, sodium salt	-	68585-34-2	5 - 10%	Skin Irrit. 2 (H315) Eyelrrit. 2 (H319)	
Ethanol	Present	64-17-5	1 - 5%	Flam. Liq. 2 (H225)	·

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)

1101 100172000 (11271011); 7111010 00)		
Chemical name	CAS No	SVHC candidates
Water	7732-18-5	-
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	-
Alkyl (C10-16) dimethylamine	70592-80-2	_
oxide	70392-00-2	-
.alphaAlkyl (C10-16)	68585-34-2	-
.omegahydroxypoly		
(oxyethylene) sulfate, sodium salt		
Ethanol	64-17-5	-

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Remove to fresh air.



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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

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

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.

Hazardous Combustion Products

Carbon oxides.

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.

For emergency responders Use personal protection recommended in Section 8.

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
Ethanol	-	STEL: 3000 ppm	TWA: 1000 ppm	STEL: 1000 ppm	TWA: 500 ppm
64-17-5		STEL: 5760	TWA: 1900 mg/m ³	STEL: 1910	TWA: 960 mg/m ³
		mg/m³	STEL: 5000 ppm	mg/m³	
		TWA: 1000 ppm	STEL: 9500		
		TWA: 1920 mg/m ³	mg/m³		
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Ethanol	-	TWA: 1000 ppm	H*	TWA: 1000 ppm	TWA: 1000 ppm
64-17-5			STEL: 1900		TWA: 1900 mg/m ³
			mg/m³	STEL: 1300 ppm	
			TWA: 260 mg/m ³	STEL: 2500	
				mg/m³	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethanol	STEL 2000 ppm	STEL: 1000 ppm	TWA: 1900 mg/m ³	TWA: 500 ppm	STEL: 1000 ppm
64-17-5	STEL 3800 mg/m ³	STEL: 1920		TWA: 950 mg/m ³	
	TWA: 1000 ppm	mg/m³		STEL: 500 ppm	
	TWA: 1900 mg/m ³	TWA: 500 ppm		STEL: 950 mg/m ³	
		TWA: 960 mg/m ³			

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 Clear Odor Mild

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH 9.0

Melting / freezing point No data available None known

Boiling point / boiling range 100°C °C

Flash PointNo data availableNone knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit

No data available

No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1.04

Water Solubility Soluble in water

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

Softening Point No information available

Molecular Weight No information available

VOC Content (%) Not applicable

Liquid Density

Bulk Density

Particle Size

Particle Size Distribution

No information available
No information available
No information available
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

Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon oxides.

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 9,352.50 mg/L

(inhalation-dust/mist)

Unknown acute toxicity

26 % of the mixture consists of ingredient(s) of unknown toxicity

25 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

26 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity



26 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

26 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	> 2000 mg/kg (Rat)	-	-
Alkyl (C10-16) dimethylamine oxide	> 2000 mg/kg (Rat)	-	-
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 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 ToxicityNo 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

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
			Microorganisms	(Water Flea)
Alkyl (C10-16)	-	-	-	96h LC50: = 1.01 mg/L
dimethylamine oxide				
Ethanol	-	96h LC50: 12.0 - 16.0	EC50 = 34634 mg/L	48h LC50: 9268 -
		mL/L (Oncorhynchus	30 min	14221 mg/L 48h EC50:
		mykiss) 96h LC50: >	EC50 = 35470 mg/L 5	= 2 mg/L 24h EC50: =
		100 mg/L (Pimephales	min	10800 mg/L



	promelas) 96h LC50:	
	13400 - 15100 mg/L	
	(Pimephales promelas)	

12.2. Persistence and degradability

Persistence and Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Log Pow
Ethanol	-0.32

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
Ethanol	

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 REGULATED

14.4 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



<u>RID</u>		NOT REGULATED
14.1	UN-No.	NOT REGULATED
14.2	Proper Shipping Name	NOT REGULATED
14.3	Hazard Class	NOT REGULATED
14.4	Packing Group	NOT REGULATED
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

<u>ADR</u>	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

<u>IATA</u>	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NON REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable

14.6 Special Provisions None

Section 14: TRANSPORT INFORMATION

IMDG/IMO	NOT REGULATED
14.1 UN-No.	Not Regulated
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Marine Pollutant	Not 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 REGULATED
14.2 Proper Shipping Name	NOT REGULATED

14.2 Proper Shipping Name14.3 Hazard Class **NOT REGULATED** 14.4 Packing Group **NOT REGULATED** 14.5 Environmental hazard Not applicable 14.6 Special Provisions None

ADR	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable
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 applicable14.6 Special ProvisionsNone

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
Ethanol	RG 84	-
64-17-5		

Water hazard class (WGK) hazardous to water (WGK 2)

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 DSL/NDSL** Contact supplier for inventory compliance status. 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**

<u>Legend</u>

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

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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/

Issuing Date 01-Mar-2017

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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

