



1 Identification of the substance / preparation and of the company

1.1 Product identifier

UltraMet 2, Cleaning solution
Article number 63-6000-006, 75-6000-032

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Buehler GmbH
 In der Steele 2
 D-40599 Düsseldorf / GERMANY
 Phone: 0800 707 6273
 Fax: 0800 707 6274
 Homepage: www.buehler-met.de/en/
 E-mail: sales@buehler.co.uk

Responsible

Schroeder@chemiebuero.de

1.4 Emergency phone

0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not determined

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Xi, R 38-41

2.2 Label elements

Hazard symbols



Irritant

R-phrases

R 38: Irritating to skin.
 R 41: Risk of serious damage to eyes.

S-phrases

S 24/25: Avoid contact with skin and eyes.
 S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 39: Wear eye/face protection.

Special labelling

none

Cleaner, 648/2004/CE, contains::

5 - <15% non-ionic surfactants
 >=30% anionic surfactant

2.3 Other hazards

Physico-chemical hazards

See chapter 10.

Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.

**3.2 Mixtures**

Range [%]	Substance
20 - <40	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts CAS: 68585-47-7, EINECS/ELINCS: 271-557-7 GHS/CLP: not determined EEC: Xi R38-41
20 - <40	Alkylethersulphate sodium salt CAS: 68585-34-2, EINECS/ELINCS: 500-223-8 GHS/CLP: not determined EEC: Xi R38-41
5 - <10	Amine, C10-16-Alkyldimethyl-, N-Oxide CAS: 70592-80-2, EINECS/ELINCS: 274-687-2 GHS/CLP: not determined EEC: Xi-N R38-41-50
1 - <10	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5 GHS/CLP: Flam. Liq. 2, H225 EEC: F R11

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures**4.1 Description of first aid measures****General information**

Change soaked clothing.

Inhalation

Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

Skin contact

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.

5 Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

The product is not combustible.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Protect from heat/overheating.

Do not store at temperatures below 0 °C.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
1 - <10	Ethanol / 1000 ppm, 1920 mg/m ³ , -

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection Safety glasses.

Hand protection butyl rubber, > 120 min (EN 374)
The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection Light protective clothing of plastic material.

Other Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Do not eat, drink, smoke or take drugs at work.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

Use barrier skin cream.

Respiratory protection not applicable

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition See Chapter 6+7.



9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	blue
Odor	characteristic
Odour threshold	not applicable
pH-value	~ 7
pH-value [1%]	not determined
Boiling point [°C]	> 100
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	1,0 (20°C / 68,0°F)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	< 0
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.



11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
20 - <40	Alkylethersulphate sodium salt, CAS: 68585-34-2 LD50, oral, Rat: > 2000 mg/kg.
5 - <10	Amine, C10-16-Alkyldimethyl-, N-Oxide, CAS: 70592-80-2 LD50, oral, Rat: > 2000 mg/kg (IUCLID).
1 - <10	Ethanol, CAS: 64-17-5 LD50, oral, Rat: 6200 mg/kg. LC50, inhalative, Rat: 95,6 mg/l (4h).
20 - <40	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts, CAS: 68585-47-7 LD50, oral, Rat: > 2000 mg/kg (IUCLID).

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks

Toxicological data are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

Range [%]	Substance
20 - <40	Alkylethersulphate sodium salt, CAS: 68585-34-2 LC50, (96h), fish: > 1 mg/l.
5 - <10	Amine, C10-16-Alkyldimethyl-, N-Oxide, CAS: 70592-80-2 LC50, (96h), Daphnia magna: 1 mg/l (IUCLID). M = 1
1 - <10	Ethanol, CAS: 64-17-5 EC50, (48h), Daphnia magna: 9268-14221 mg/l. LC50, (48h), Leuciscus idus: 8140 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

**12.5 Results of PBT and vPvB assessment**

not applicable

12.6 Other adverse effects

None known.

13 Disposal considerations**13.1 Waste treatment methods**

Coordinate the waste disposal with the national authorities.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070604*

Contaminated packagingPackaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.**Waste no. (recommended)**150110*
150102**14 Transport information****14.1 UN number**

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name**Classification according to ADR**

NO DANGEROUS GOODS

Classification according to IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Classification according to IATA

NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EEC-REGULATIONS**1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach);
1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC**TRANSPORT-REGULATIONS**

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.



16 Other informations

R-phrases (Chapter 03)	R 38: Irritating to skin. R 41: Risk of serious damage to eyes. R 50: Very toxic to aquatic organisms. R 11: Highly flammable.
Hazard statements (Chapter 03)	H225 Highly flammable liquid and vapour.
Observe employment restrictions for people	yes
VOC (1999/13/CE)	~ 5 %

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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