

Date printed: 20.03.2009, Revision: 20.03.2009

Page 1 / 5

1 Identification of the substance / preparation and of the company

Product: Akemi transparent, Hardener
Article number: 11 10 52
Registration number: not applicable
Use: Polyester, Castable Mounting
Identified use: none
Method of operation: See product information.
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
Emergency phone: 0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
Responsible: Simonavicius@chemiebuero.de

2 Hazards identification

Physico-chemical hazards: See chapter 10 and R-phrases.
Human health dangers: See R-phrases.
Environmental hazards: The product/the substance has the Water Hazard Class 1.
Other hazards: none
Hazard symbols:



Corrosive



Oxidizing

R-phrases: R 7: May cause fire.
 R 22: Harmful if swallowed.
 R 34: Causes burns.

3 Composition / Information on ingredients

1 - 5%	Butanone
F-Xi, R11-36-66-67 CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, ECBnr:	
1 - 5%	Hydrogen peroxide
O-C, R5-8-20/22-35 CAS: 7722-84-1, EINECS/ELINCS: 231-765-0, EU-INDEX: 008-003-00-9, ECBnr:	
25 - 50%	2-Butanone, peroxide
C-E, R2-22-34-7 CAS: 1338-23-4, EINECS/ELINCS: 215-661-2, EU-INDEX: , ECBnr:	

Comment on component parts: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

General information: Remove contaminated soaked clothing immediately and dispose of safely.
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 soap and 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.
Advice to doctor: Treat symptomatically.



5 Fire-fighting measures

Suitable extinguishing media: Carbon dioxide.
Dry powder.
Water spray jet.
Foam.

Extinguishing media that must not be used:
Full water jet.

Special exposure hazards arising from the substance or preparation itself or combustion products:
Unknown risk of formation of toxic pyrolysis products.

Special protective equipment for firefighters:
Use self-contained breathing apparatus.

Additional information: Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6 Accidental release measures

Personal precautions: Keep away from all sources of ignition.
Ensure adequate ventilation.

Environmental precautions: Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up: Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

7 Handling and storage

Advice on safe handling: Use only in well-ventilated areas.

Advice on protection against fire and explosion:
Keep away from all sources of ignition - Refrain from smoking.

Requirements for storage rooms and vessels:
Keep only in original container.

Advice on storage compatibility: Do not store together with acids.
Do not store with combustible materials.
Do not store together with reducing agents.

Further information on storage conditions:
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place.
Protect from heat/overheating.



8 Exposure controls / personal protection

Additional advice on system design:

Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored:

1 - 5%	Hydrogen peroxide, 1ppm*, 1,4mg/m ³ *
25 - 50%	2-Butanone, peroxide, 0,2ppm*, 1,5mg/m ³ *, General remarks: short -therm exposure
1 - 5%	Butanone, 200ppm*, 600mg/m ³ *, General remarks: Sk, BmgV

* WEL: Workplace exposure limit

Respiratory protection:	not applicable
Hand protection:	PVA, >480 min (EN 374).
Eye protection:	Safety glasses.
Skin protection:	Light protective clothing of plastic material.
General protective measures:	Do not inhale vapours. Avoid contact with eyes and skin.
Hygiene measures:	Clean skin thoroughly after work, apply skin cream. Do not eat, drink, smoke or take drugs at work. Remove soiled or soaked clothing immediately. Use barrier skin cream.

Delimitation and monitoring of the environmental exposition:

not applicable

9 Physical and chemical properties

Form:	liquid
Color:	colourless
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	81
Flash point [°C]:	not applicable
Flammability [°C]:	555
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidizing properties:	yes
Vapour pressure [kPa]:	not determined
Density [g/ml]:	1,12
Density at [°C]:	20
Bulk density [kg/m³]:	not applicable
Solubility in water:	immiscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not applicable
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	not determined
Autoignition temperature [°C]:	not determined
Decomposition temperature:	+60 (SADT)

10 Stability and reactivity

Hazardous reactions:	Reactions with amines. Reactions with reducing agents, heavy metals. Reactions with acids. As oxidizing agent, attacks organic substances such as wood, paper, fats.
-----------------------------	---

Hazardous decomposition products:

No hazardous decomposition products known.

11 Toxicological information

Acute oral toxicity:	not determinated
Acute dermal toxicity:	not determinated
Acute inhalational toxicity:	not determinated
Irritant effect on eye:	not determinated
Irritant effect on skin:	not determinated
Sensitization:	not determinated
Subacute toxicity:	not determinated
Chronic toxicity:	not determinated
Mutagenicity:	not determinated
Reproduction toxicity:	not determinated
Carcinogenicity:	not determinated
Experiences made in practice:	none
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

Fish toxicity:	not determinated
Daphnia toxicity:	not determinated
Behaviour in environment compartments:	not determinated
Behaviour in sewage plant:	not determinated
Bacteria toxicity:	not determinated
Biological degradability:	not determinated
COD:	not determinated
BOD 5:	not determinated
AOX-advice:	not applicable
2006/11/EC:	not applicable
General information:	No classification on the basis of the calculation procedure of the preparation directive.

13 Disposal considerations

Product:	Disposal in an incineration plant in accordance with the regulations of the local authorities. Dispose of as hazardous waste.
Contaminated packaging:	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
Waste no. (recommended):	080409*

14 Transport information

Classification according to ADR:	UN 3105 Organic peroxide type D, liquid, Methyl ethyl ketone peroxide 5.2,
- Classification Code:	P1
- Label:	
- ADR LQ	LQ16: 0,125l
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 2 (D)
Classification according to IMDG:	UN 3105 Organic peroxide Type D, liquid, Methyl ethyl ketone peroxide 5.2
- EMS:	F-J, S-R
- Label:	
- IMDG Limited Quantities:	LQ: 0,025 l
Classification according to IATA:	UN 3105 Organic peroxide Type D, liquid, Methyl ethyl ketone peroxide 5.2
- Label:	

15 Regulatory information

Exposure scenario:	not applicable
Chemical safety report:	not applicable
Labelling:	The product is classified and labelled in accordance within EC-directives.
Hazard symbols:	



Corrosive



Oxidizing

Contains:	2-Butanone, peroxide
R-phrases:	R 7: May cause fire. R 22: Harmful if swallowed. R 34: Causes burns.
S-phrases:	S 3/7: Keep container tightly closed in a cool place. S 14.7: Keep away from dirt, rust, chemicals, alkalis and acids as well as heavy metal salts and amines. 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 36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 50.1: Do not mix with acids.
Special labelling:	none
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable
EEC-REGULATIONS:	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).
NATIONAL REGULATIONS	EH40/2005 Workplace exposure limits with amendments October 2007.

16 Other informations

R-phrases (Chapter 03):	R 2: Risk of explosion by shock, friction, fire or other sources of ignition. R 8: Contact with combustible material may cause fire. R 7: May cause fire. R 67: Vapours may cause drowsiness and dizziness. R 66: Repeated exposure may cause skin dryness or cracking. R 5: Heating may cause an explosion. R 36: Irritating to eyes. R 35: Causes severe burns. R 34: Causes burns. R 20/22: Harmful by inhalation and if swallowed. R 11: Highly flammable. R 22: Harmful if swallowed.
Observe employment restrictions for people:	yes
VOC (1999/13/CE):	2,5%
Customs Tariff:	not determinated