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1 Identification of the substance / preparation and of the company

Product: Akemi transparent, Resin
Article number: 11 10 51
Registration number: not applicable
Use: Polyester, Castable Mounting
Identified use: none
Method of operation: See product information.
Company: Buehler GmbH
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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 2.
Other hazards: none
Hazard symbols:



Harmful

R-phrases: May produce an allergic reaction.
 R 10: Flammable.
 R 20: Harmful by inhalation.
 R 36/38: Irritating to eyes and skin.

3 Composition / Information on ingredients

25 - 50%	Styrene
Xn, R10-20-36/38 CAS: 100-42-5, EINECS/ELINCS: 202-851-5, EU-INDEX: 601-026-00-0, ECBnr:	
0,1 - < 1%	Phthalic anhydride
Xn, R22-37/38-41-42/43 CAS: 85-44-9, EINECS/ELINCS: 201-607-5, EU-INDEX: 607-009-00-4, 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:** Dry powder.
Water spray jet.
Carbon dioxide.
Alcohol-resistant 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.
High risk of slipping due to leakage/spillage of product.
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:** Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
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.
Vapours can form an explosive mixture with air.
- Requirements for storage rooms and vessels:**
Keep only in original container.
- Advice on storage compatibility:** Do not store together with oxidizing agents.
- Further information on storage conditions:**
Keep container tightly closed.
Keep container in a well-ventilated 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:

25 - 50%	Styrene, 100ppm*, 430mg/m ³ *
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*** WEL: Workplace exposure limit**

- Respiratory protection:** Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, combination filter A-P2.
- Hand protection:** Viton, >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:** 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.
- Delimitation and monitoring of the environmental exposition:**
not determined



9 Physical and chemical properties

Form:	liquid
Color:	colourless
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	145
Flash point [°C]:	31
Flammability [°C]:	480
Lower explosion limit:	1,2 Vol.%
Upper explosion limit:	8,9 Vol.%
Oxidizing properties:	no
Vapour pressure [kPa]:	0,6 (20°C)
Density [g/ml]:	ca. 1,12
Density at [°C]:	20°C
Bulk density [kg/m³]:	not applicable
Solubility in water:	virtually insoluble
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	220 s (DIN 53211/4) (20°C)
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	not determined
Autoignition temperature [°C]:	not applicable
Decomposition temperature:	not determined

10 Stability and reactivity

Hazardous reactions:	Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Reactions with strong oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products known.

11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none
General remarks:	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:	yes
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:	NO DANGEROUS GOODS, ACCORDING ADR 2.2.3.1.5 TO MAX. 450 L
- Classification Code:	
- Label:	
- ADR LQ	
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): -
Classification according to IMDG:	NO DANGEROUS GOODS, ACCORDING IMDG 2.3.2.5 TO MAX. 30 L (SEE 5.4.1.5.10)
- EMS:	
- Label:	
- IMDG Limited Quantities:	
Classification according to IATA:	UN 1866 Resin solution 3 III
- 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:	 Harmful
Contains:	Styrene Phthalic anhydride
R-phrases:	May produce an allergic reaction. R 10: Flammable. R 20: Harmful by inhalation. R 36/38: Irritating to eyes and skin.
S-phrases:	S 23.3: Do not breathe vapour. 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 51: Use only in well-ventilated areas.
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 41: Risk of serious damage to eyes. R 36/38: Irritating to eyes and skin. R 37/38: Irritating to respiratory system and skin. R 10: Flammable. R 20: Harmful by inhalation. R 22: Harmful if swallowed. R 42/43: May cause sensitisation by inhalation and skin contact.
Observe employment restrictions for people:	yes
VOC (1999/13/CE):	397 g/l
Customs Tariff:	not determined