

# Material Safety Data Sheet



The Chemical Company

Revised : 22/02/2007

Supersedes : 24/10/2006

MEYCO® SA 167

HD-MEYCO SA 167



Xi - Irritant

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Product Information

Product name MEYCO® SA 167

### Use of the Substance/Preparation

Recommended use Alkali-free accelerator for sprayed concrete application

### Manufacturer, importer, supplier

Company UGC International, Division of BASF Construction Chemicals (Switzerland) Ltd, Vulkanstrasse 110, 8048 Zurich, Switzerland, Tel.: +41 58 958 22 11, Fax: +41 58 958 34 10, www.ugc.basf.com

### Emergency telephone number

BASF AG Ludwigshafen Werkfeuerwehr  
Tel.: 0049 621 60 43333  
Fax: 0049 621 60 92664  
e-mail: fire.department@basf.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Aqueous solution/suspension of aluminium salts

<u>Hazardous components</u>	<u>CAS-Nr.</u>	<u>Weight %</u>	<u>OEL*, mg/m<sup>3</sup></u>
Aluminium sulphate Xi,R41	16828-12-9	25 - 40 %	2 (as aluminium)
Diethanolamine Xn,R22,R38,R41,R48/22	111-42-2	1 <= 4 %	15

\* Occupational Exposure Limit, mg/m<sup>3</sup>

## 3. HAZARDS IDENTIFICATION

Specific hazards Xi - Irritant  
R41 - Risk of serious damage to eyes.

physico-chemical properties Acidic product. May react with metals and may release hydrogen (Explosion hazard)

## 4. FIRST AID MEASURES

**UGC International**  
Division of BASF Construction Chemicals (Switzerland) Ltd  
Vulkanstrasse 110  
CH-8048 Zurich, Switzerland

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- Eye contact	Remove eye lenses immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.	
- Skin contact	Remove contaminated clothing immediately. Wash affected area with plenty of water. Get medical attention if irritation persists.	
- Inhalation	Remove affected person to fresh air. If nose or airways become inflamed, seek medical advice.	
- Ingestion	Rinse mouth immediately with plenty of water. If swallowed obtain medical attention. Induce vomiting only on the advice of physician.	
<b>5. FIRE-FIGHTING MEASURES</b>		
<u>Extinguishing media</u>		
- Suitable extinguishing media	All extinguishing media can be used.	
- Extinguishing media which must not be used for safety reasons	High volume water jet	
Specific methods	Cool containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.	
Special protective equipment for firefighters	Use self-contained breathing apparatus for fire fighting.	
Under fire conditions:	Decomposes in sulphur dioxide, -trioxide	
Fire Hazard	This product is an aqueous solution and non combustible.	
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
Personal precautions	Use personal protective equipment. See # 8. Avoid contact with skin and eyes. Ensure adequate ventilation.	
Environmental precautions	Observe the usual precautions as with all chemicals. Do not discharge product into drains, surface and/or ground waters or onto surface soils.	
Clean-up methods - large spillage	Pump back into container. See also section # 3. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal. Dispose as per 13.	
Clean-up methods - small spillage	Neutralize with excess amounts of sodium hydrogen carbonate powder (NaHCO <sub>3</sub> ), calcium carbonate or limestone powder (CaCO <sub>3</sub> ). Carbon dioxide (CO <sub>2</sub> ) may form in confined areas. Discharge of only after neutralisation.	
<b>7. HANDLING AND STORAGE</b>		
<u>Handling</u>		
Technical measures/Precautions	Observe the usual precautions when handling chemicals. Provide adequate ventilation or air evacuation at workplace. Keep product in the original container. For a re-conditioning on job site use only plastic or stainless steel containers (steel quality AISI 316L). See also section # 3.	

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Safe handling advice	Use personal protective equipment. See # 8. Avoid spilling, skin and eye contact. Observe industrial safety and hygiene practice.	
<u>Storage</u>		
Technical measures/Storage conditions	Store in original container. Store in cool, dry place. Do not store in direct sunlight. Protect against frost.	
Incompatible products	Avoid contact with reactive metals (mild steel, aluminum, copper, zinc and their alloys, etc). Avoid contact with strong alkalies.	
Storage class (VCI)	12: Non-combustible liquids	
Protection against fire and explosion	This product is an aqueous solution and non combustible.	
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>		
Exposure limit(s)	2 mg/m <sup>3</sup> (as aluminium) 15 mg/m <sup>3</sup> Diethanolamine CAS Nr. 111-42-2	
Engineering measures	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.	
<u>Personal protective equipment</u>		
- Respiratory protection	Wear respiratory equipment when entering the spray area : masks / respirators (filter P2, EN 143)	
- Hand protection	Gloves: latex / rubber (NR, EN 374)	
- Eye protection	Safety goggles / face shield	
- Skin and body protection	Overall for medium risks chemicals, Class II (EN 468)	
Hygiene measures	General industrial hygiene practice. Observe the usual precautions when handling chemicals. Wash hands before breaks and after finishing work. Change contaminated clothes immediately. Do not eat, drink or smoke at workplace.	
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>		
Form	liquid ( suspension ) (20° C)	
Colour	clear / slightly opaque	
Odour	characteristic	
Density	1.47 ± 0.03 g/cm <sup>3</sup> (20° C)	
pH	2.7 ± 0.5 (20° C)	
Water solubility	miscible (20° C)	
Viscosity	750 ± 250 mPa.s (20° C), Brookfield, spindle 3/100	
Decomposition temperature	>= 100 °C	
Other data	This product is not combustible.	
<b>10. STABILITY AND REACTIVITY</b>		
Stability	Stable under normal storage and application temperatures.	
Materials to avoid	Avoid contact with reactive metals (mild steel, aluminum, copper, zinc and their alloys, etc). Avoid contact with strong alkalies.	

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Hazardous reactions	Reacts aggressively with metals (mild steel, aluminum, copper, zinc and their alloys, etc) . Gives off hydrogen by reaction with metals. Explosion hazard!	
Hazardous decomposition products	Decomposes in sulphur dioxide, -trioxide under fire conditions.	
<b>11. TOXICOLOGICAL INFORMATION</b>		
No toxicological data is available for the finished product. The LD50/LC50 values mentioned refer to individual raw materials. (IUCLID)		
Component:	Aluminium sulphate CAS. Nr. 10043-01-3 Diethanolamine CAS. Nr. 111-42-2	
<u>Acute toxicity</u>		
LD50/oral/rat =	6207 mg/kg : Aluminium sulphate 676 mg/kg : Diethanolamine	
LD50/dermal/rabbit =	8328 mg/kg : Diethanolamine	
Eye irritation	serious eye damage	
Skin irritation	non-irritant	
<b>12. ECOLOGICAL INFORMATION</b>		
No eco-toxicological data is available for the finished product. The EC50/LC50 values mentioned refer to individual raw materials. (IUCLID)		
Component:	Aluminium sulphate CAS Nr. 10043-01-3 Diethanolamine CAS Nr. 111-42-2	
Bioaccumulation	None is expected (log P(o/w < 1)): Diethanolamine	
Biodegradability	94 % /30 d (closed bottle test): Diethanolamine	
Ecotoxicity effects	The product, when diluted, develops water insoluble aluminum hydroxide. Big amounts may lower the pH value in water. Do not discharge product into drains and sewers.	
LC50/96h/fish =	100 mg/l (Carassius auratus): Aluminium sulphate	
LC50/48h/fish =	1430 mg/l (L. idus): Diethanolamine	
EC50/48h/daphnia =	110 mg/l : Diethanolamine	
EC50/Daphnia	136 mg/l 15 min Aluminium sulphate	
Further information on ecology	BOD5: 0.89g/g; COD: 1.52 g/g; TOD: 2.13 g/g: Diethanolamine	
Water pollution class	German WPC (water pollution class) = 1 (low hazard to water)	
<b>13. DISPOSAL CONSIDERATIONS</b>		
Waste from residues	Contaminated packaging should be emptied as far as possible and after appropriated cleaning may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product. Eliminate the product and its package in agreement with the local legislation. The end user of the product is responsible for the waste (product and package). Dispose according to local regulations.	
Waste disposal number	After neutralization the unused product can be disposed off as 16 03 04 (unused inorganic wastes other than 16 03 03)	

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## 14. TRANSPORT INFORMATION

Road/rail transport

ADR/RID

Sea transport IMDG

Air transport ICAO-TI and IATA-DGR

IATA-DGR

Other information

This product is not classed as a dangerous good in any transport regulation.

## 15. REGULATORY INFORMATION

Labelling

Symbol(s):

Hazard-determining components of labelling

R-phrase(s)

S-phrase(s)

Labelling according to EU directives concerning preparations.

Xi - Irritant

Aluminium sulphate CAS Nr. 16828-12-9

R41 - Risk of serious damage to eyes.

S 2 - Keep out of the reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 - Wear suitable gloves and eye/face protection.

## 16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R22 - Harmful if swallowed.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Released:

DEA

Approved:

DEA

REMARKS:

This data sheet conforms to standards defined by directives 91/155 & 93/112/EEC

Data sheet required pursuant to Art.10 of directive 88/379/EEC.

The information in this Data Sheet applies only to the products designated herein and produced or supplied by us. It is based on our experience and on the data available to us at the time of its issue and is accurate to the best of our knowledge.