

### 1. Identification of substance/mixture and company/undertaking

#### **Multiseal R 13**

Use: See product information  
Identified use: none  
Mode of action: See product information  
Undertaking: Unipak A/S  
Marktoften 3c  
8464 Galten/Denmark  
Tel.: +45 86 26 11 77  
Fax: +45 86 26 09 59  
Website: [www.unipak.dk](http://www.unipak.dk)  
E-mail: [sales@unipak.dk](mailto:sales@unipak.dk)

Undertaking's emergency  
telephone number: +45 82 12 12 12 (day and night)  
Responsible person: [sales@unipak.dk](mailto:sales@unipak.dk)

### 2. Hazards identification

Physicochemical hazards: See Chapter 10  
Human health hazards: See Chapter 11  
Environmental hazards: See Chapter 12  
Other hazards: none  
Hazard symbols: none  
R-phrases: none

### 3. Composition/Information on ingredients

Contents [%]	Component
1 - < 20	Sulfaminacid CAS: 5329-14-6, EINECS/ELINCS: 226-218-8 EU-INDEX: 016-026-00-0 ECB No.: GHS/CLP: Eye irrit. 2, skin irrit. 2, aquatic chronic 3, H319, H315, H412 EEC: Xi, R36/38-52/53

Comment on components: No dangerous ingredients mentioned in the SVHC List (Candidate List of Substances of Very High Concern for authorisation)

### 4. First-aid measures

General advice: Change contaminated clothing.  
On inhalation: Provide fresh air.  
On skin contact: Seek medical attention if patient feels discomfort.  
If the substance spills onto the skin, wash immediately with soap and water.  
Seek medical attention in case of persistent skin irritation.  
In case of contact with eyes: If the substance gets into the eyes, flush immediately with plenty of water and contact a doctor.  
If swallowed: Medical treatment necessary.  
Rinse the mouth and drink plenty of water.  
Let the injured vomit, if he is fully conscious.  
Advice to medical practitioner: Symptomatic treatment.

#### 5. Firefighting measures

Suitable extinguishing agents:	The product itself is not flammable. Rules for firefighting should be adapted for fires in surrounding areas.
Unsuitable extinguishants:	Full water jet.
Particular exposure risks deriving from actual product or combustion products:	Risk of formation of toxic pyrolysis products. Sulphur oxides (SO <sub>x</sub> ) Nitrogen oxides (NO <sub>x</sub> ) Ammonia (NH <sub>3</sub> )
Special protective equipment for firefighting:	Use supplied air breathing apparatus.
Other information:	Exposed containers are cooled off with water spray Fire residues and contaminated extinguishing water must be disposed of in accordance with local authority regulations.

#### 6. Accidental release measures

Person-related precautions:	Ensure plentiful ventilation. Particular danger of slipping if the product has ran out/is spilled Use personal protective equipment.
Environmental protection rules:	Prevent spreading of spillages (e.g. by containing spills mechanically or with oil barriers). Must not enter drainage system/surface water/ground water.
Methods for cleaning/mopping up:	Remove with liquid-binding material (e.g. sand, sawdust, universal binder, diatomite). The removed material should be disposed of in accordance with regulations.

#### 7. Handling and storage

Guidelines for safe handling:	usual precautions for handling chemicals should be observed.
Advice for fire and explosion protection:	No special precautions required.
Requirements for storage areas and containers:	Store only in original containers. Prevent penetration in the soil. Incorporate caustic-resistant floors.
Advice for combined storage:	Must not be stored together with oxidants Must not be stored together with alkali.
Further information on storage conditions:	The container must be kept tightly closed. Stored cold. Stored dry.

8. Exposure controls/personal protection

Further advice on design of technical plant:	Ensure plentiful ventilation at the workplace
Ingredients with work-hygiene threshold limits:	Not applicable
Breathing protection:	Breathing protection in case of aerosol or mist formation. Short-term filter mask, filter A.
Hand protection:	These indications are recommendations. For further information please contact glove supplier. For full contact: Butyl rubber, >480 min (EN 374). Polychloroprene, >480 min (EN 374). For splash contact: Butyl rubber, >120 min (EN 374). Polychloroprene, >120 min (EN 374).
Eye protection:	Tight-fitting safety glasses.
Body protection:	acidproof protective clothes
General protective measures:	Avoid contact with eyes and skin. Avoid inhalation of vapours. Protective overalls must be selected specifically for the workplace, depending on the concentration and amount of toxic substances to be handled. Information on the overall's resistance to chemicals must be obtained from the individual supplier.
Hygiene precautions:	Wash hands before breaks and after work. Do not eat, drink, smoke or consume snuff during work. Use skin cream for preventive effect.
Limitation and monitoring of environmental impacts:	Not determined

9. Physical and chemical properties:

Form:	viscous
Colour:	light yellow
Odour:	characteristic
pH value:	1 (20°C)
pH value [1%]:	not determined
Boiling point [°C]:	100
Flash point [°C]:	not applicable
Flammability [°C]:	not applicable
Lower explosive limit:	not determined
Upper explosive limit:	not determined
Fire intensifying properties:	no
Vapour pressure [kPa]:	2,3 (20°C)
Mass density [g/ml]:	1.07 (20°C)
Specific weight [kg/m³]:	not applicable
Solubility in water:	mixable

n-Butanol/water distribution

coefficient [log Pow]: not determined

Viscosity: not determined

Vapour density

compared to air: not determined

Evaporation rate: not determined

Melting point [°C]: not determined

Autoignition [°C]: not determined

Decomposition point [°C]: not determined

## 10. Stability and reactivity

Hazardous reactions: Reacts with alkali  
Reacts with oxidants  
Reacts with metals with formation of hydrogen.

Hazardous decomposition products: No known hazardous breakdown products.

## 11. Toxicological information

Acute oral toxicity: LD50: >2000 mg/kg (OECD 401) Rat

Acute dermal toxicity: not determined

Acute inhalation toxicity: not determined

Eye irritation: not irritant

Skin irritation: not irritant

Sensitisation: not sensitizing

Subacute toxicity: not determined

Chronic toxicity: not determined

Mutagenicity: not determined

Reproductive toxicity: not determined

Carcinogenicity: not determined

Practical experience: None

General comments: The data given toxicological refer to main components.  
Classification made by the calculation method of the preparation directive

## 12. Ecological information

Toxicity to fish: LC50(96h): 70,3 mg/l (CAS 5329-14-6)

Toxicity to daphnia: not determined

Behaviour in environment: not determined

Behaviour in sewage works: The product is an acid. A neutralising is necessary before leading into sewage treatment plant

Toxicity to bacteria: not determined

Biological degradability: not determined

COD: not determined

BOD 5: not determined

AOX advice: not applicable

2006/11/EC: not applicable

General advice: The data given toxicological refer to main components.

Do not allow the product uncontrolled into the environment and the drainage

### 13. Disposal considerations

Product:	Disposal as hazardous waste Ask the producer for possible reuse
Uncleaned packaging:	Contaminated packaging must be emptied and cleaned to be reused. Packaging which cannot be cleaned is regarded as waste and disposed of as for contents.
European Waste Catalogue (recommended):	060106*

### 14. Transport information

ADR classification:	UN 3264 corrosive liquid inorganic acid, N.O.S. (sulfamic acid, dissolution) 8 III
- classification code:	C1
- label:	
- ADR LQ	LQ7: 5I
- ADR 1.1.3.6 (8.6):	transport category (tunnel restriction codes): 3 (E)
IMDR classification:	UN 3264 corrosive liquid inorganic acid, N.O.S. (sulfamic acid, dissolution) 8 III
-EMS	F-A, S-B
- label:	
- IMFG LQ	5 I
IATA classification:	UN 3264 corrosive liquid inorganic acid, N.O.S. (sulfamic acid, dissolution) 8 III
- label:	

### 15. Regulatory information

Exposure scenario:	not determined
Chemical safety assessment:	not determined
Labelling:	Product not liable for labelling under EU guidelines
Hazard symbols:	None
Component:	None
R-phrases:	None
S-phrases:	None
Special labelling:	Safety data sheet can be required by professionals
EEC REGULATIONS:	1967/548 (2008/58, 30. ATP/31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC)
TRANSPORT REGULATIONS:	ADR (2009); IMDG Code (34th Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (DK):	
Approval , SECTION VII:	not applicable
Restrictions, SECTION VIII:	not applicable
- Code number (1993/2001):	not applicable

Safety data sheet 1907/2006/EC – REACH (DK)

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Unipak A/S

8464 Galten

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#### 16. Other information

R-phrases (Chapter 03):	R 36/38: irritates eyes and skin R 52/53: toxic for organisms living in water: can cause unwanted long-term effects in the water environment
Risk phrases (Chapter 03):	H319 causes severe eye irritation H315 causes skin irritation H412 toxic to organisms living in water with long-term effect
Maintain employment restrictions for persons:	not applicable
VOC (1991/13/EC):	not applicable

All the above information is based on our current knowledge but does not constitute a guarantee of product properties and does not create any contractual relationship.