

1. Identification of substance/mixture and company/undertaking

Multiseal HR

Use: See product information
Identified use: cleaner
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
E-mail: sales@unipak.dk

Undertaking's emergency
telephone number: +45 82 12 12 12 (day and night)
Responsible person: Schroeder@chemiebuero.de

2. Hazards identification

Physicochemical hazards: See Chapter 10
Human health hazards: See Chapter 15
Environmental hazards: See Chapter 12
Other hazards: none



Hazard symbols: 
R-phrases: R36: Irritates eyes

3. Composition/Information on ingredients

Contents [%] Component

5 - <15 Phosphonobutane tricarboxyle acid

CAS: 37971-36-1, EINECS/ELINCS: 253-733-5 EU-INDEX:017-013-00-2 ECB No.:

GHS/CLP:

EEC:

20 - <25 citric acid

CAS: 77-92-9, EINECS/ELINCS: 201-069-1 EU-INDEX: ECB No.:

GHS/CLP: eye irrit. 2, H319

EEC: Xi, R36

Comment on components: There are not contained substances listed in the SVHC List (Candidate List of Substances of Very High Concern for authorisation)
The text for the stated hazard reference appears in chapter 16.

4. First-aid measures

General advice: Change contaminated clothing.
On inhalation: Provide fresh air.
By symptoms seek for medical treatment
On skin contact: 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: Rinse the mouth and drink plenty of water.
Do not provoke vomiting.
Medical treatment necessary.
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.
Carbon monoxide (CO)
Phosphor oxide (Pox)

Special protective equip-

ment for firefighting:

Use supplied air breathing apparatus.

Other information:

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.

Use personal protective equipment.

Particular danger of slipping if the product has ran out/is spilled

Environmental protection

rules:

Must not enter drainage system/surface water/ground water.

Prevent spreading of spillages (e.g. by containing spills mechanically or with
oil barriers).

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: Only to be used in well ventilated rooms.

Usual precautions for handling chemicals should be observed.

Advice for fire and explosion

protection:

No special precautions are 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 alkali.

Further information on

storage conditions: The container must be kept tightly closed.
Stored in ventilated place.
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).
For splash contact:
Butyl rubber, >120 min (EN 374).

Eye protection: Tight fitting safety glasses.

Body protection: Acid protective suit

General protective
measures:

Avoid contact with eyes and skin.
Avoid inhalation of vapours/aerosol mists.
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: Do not eat or drink during work.
Wash hands before breaks and at the end of work.
Use skin cream for preventive effect.

Limitation and monitoring

of environmental impacts: Not determined

9. Physical and chemical properties:

Form: viscous
Colour: light brown
Odour: weak
pH value: 1,1
pH value [1%]: not determined
Boiling point [°C]: app. 100
Flash point [°C]: > 100
Flammability [°C]: not determined
Lower explosive limit: not determined
Upper explosive limit: not determined
Fire intensifying properties: no

Vapour pressure [kPa]: not determined
Mass density [g/ml]: 1.27 - 1,3 (20°C)
Specific weight [kg/m³]: not applicable
Solubility in water: mixable
n-Ofanol/water distribution
coefficient [log Pow]: not determined
Viscosity: not determined
Vapour density
compared to air: not determined
Evaporation rate: not determined
Melting point [°C]: app. -15
Autoignition [°C]: not determined
Decomposition point [°C]: not determined

10. Stability and reactivity

Hazardous reactions: Corrosive to acids
Reacts with metals with formation of hydrogen
Reacts with alkali
Reacts with oxidants
Reacts with strong acids

Hazardous decomposition products: No known hazardous breakdown products.

11. Toxicological information

Acute oral toxicity: not determined
Acute dermal toxicity: not determined
Acute inhalation toxicity: not determined
Eye irritation: irritant
Skin irritation: not determined
Sensitisation: not sensitizing
Subacute toxicity: not determined
Chronic toxicity: not determined
Mutagenicity: not determined
Reproductive toxicity: not determined
Carcinogenicity: not determined
Practical experience: frequent or prolonged skin contact may cause skin irritation
General comments: There are no toxicological data.
Classification made by the calculation method of the preparation directive

12. Ecological information

Toxicity to fish: not determined
Toxicity to daphnia: not determined
Behaviour in environment: not determined
Behaviour in sewage works: product is an acid. Must be treated according to best available techniques before lead into sewerage
Toxicity to bacteria: not determined
Biological degradability: biological degradable
COD: not determined
BOD 5: not determined

AOX advice: not applicable
2006/11/EC: yes
General advice: No ecological data available. Do not allow uncontrolled into environment and drainage.

13. Disposal considerations

Product: Disposal as hazardous waste
Ask the producer for possible recycling
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): 070701*

14. Transport information

ADR classification: UN 1760 corrosive liquid, N.O.S. (phosphonbutane tricarboxyl acid, dissolution) 8 III
- classification code: C9
- label:
- ADR LQ LQ7: 5I
- ADR 1.1.3.6 (8.6): transport category (tunnel restriction codes): 3 (E)
IMDR classification: UN 1760 corrosive liquid, N.O.S. (phosphonbutane tricarboxyl acid, dissolution) 8 III
-EMS F-A, S-B
- label:
- IMFG LQ 5I
IATA classification: UN 1760 corrosive liquid, N.O.S. (phosphonbutane tricarboxyl acid, dissolution) 8 III
- label:

15. Regulatory information

Exposure scenario: not determined
Chemical safety assessment: not determined
Labelling: Product is classified and marked according to EU guidelines



Hazard symbols:
R-phrases: R 36: irritates eyes
S-phrases: S 26: if substance gets in contact with eyes, rinse immediately with plenty of water and seek
Medical attention.
S 51: Must only be used in well-ventilated areas
Special labelling: not applicable
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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Page 6/6

16. Other information

R-phrases (Chapter 03):

R 36: irritates eyes

Risk phrases (Chapter 03):

H319 causes severe eye irritation

Maintain employment

restrictions for persons:

yes

VOC (1991/13/EC):

not applicable

Cleaning, 648/2004/EU, content:

5 – 15% phosphonates

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.

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