Multiseal FS Unipak A/S 8464 Galten

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1. Identification of substance/mixture and company/undertaking

Multiseal FS

Use: Antifreeze 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 E-mail: sales@unipak.dk

Undertaking's emergency

telephone number: +45 82 12 12 12 (day and night)

Responsible person: <u>sales@unipak.dk</u>

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

90 - < 100 1,2 - Propanediol

CAS: 57-55-6, EINECS/ELINCS: 200-338-0 EU-INDEX: ECB No.:-

GHS/CLP: -EEC: , R

Comment on components: No dangerous ingredients

SVHC List (Candidate List of Substances of Very High Concern for

authorisation): contains none or less than 0,1% of the substances from the

list.

4. First-aid measures

General advice: Change contaminated clothing.

On inhalation: Provide fresh air.

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: 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.

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5. Firefighting measures

Alcohol resistant foam Suitable extinguishing agents:

Carbonic acid

Extinguishing powder

Water spray

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)

Special protective equip-

ment for firefighting: Do not inhale explosions- and fire gases

Use supplied air breathing apparatus.

Other information: Exposed containers are cooled off with waterspray

Fire residues and contaminated extinguishing water must be disposed of in accordance with

local authority regulations.

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.

Handling and storage

Guidelines for safe handling: Use only in well ventilated areas.

Exhaustion at the object is necessary.

Advice for fire and explosion

protection:

Keep away from ignition sources – smoking forbidden.

Vapours combined with air can lead to an exoploding mixture.

Requirements for storage

areas and containers:

Project solvent persistent and impermeable floors

Store only in original containers.

Advice for combined storage: Must not be stored together with oxidants

Must not be stored together with acids.

Further information on

storage conditions: The container must be kept tightly closed.

Stored cold. Stored dry.

Protect against heating/overheating Recommended storing temperature: <40°C.

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

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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 P2.

Hand protection: These indications are recommendations. For further information please

> contact glove supplier. For full contact:

Butyl rubber, >480 min (EN 374). Nitril, >480 min (EN 374).

Polychloroprene, >480 min (EN 374).

For splash contact:

Butyl rubber, >120 min (EN 374).

Nitril, >120 min (EN 374).

Polychloroprene, >120 min (EN 374).

Eye protection: Safety glasses.

Body protection: Not applicable

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

Physical and chemical properties:

Form: viscous Colour: light blue Odour: odour-free pH value: not determined pH value [1%]: not determined 185-190 Boiling point [°C]:

Flash point [°C]:app. 109

Flammability [°C]: app. 370 Lower explosive limit: 2,4 Vol. % Upper explosive limit: 12,6 Vol. %

Fire intensifying properties:

Vapour pressure [kPa]: not determined Mass density [g/ml]: approx. 1.04 (20°C) Specific weight [kg/m³]: not applicable Solubility in water: mixable

n-Otanol/water distribution

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coefficient [log Pow]: not determined Viscosity: 60 mPas (20°C)

Vapour density

compared to air: not determined Evaporation rate: not determined

Melting point [°C]: -37
Autoignition [°C]: app. 370
Decomposition point [°C]: not determined

10. Stability and reactivity

Hazardous reactions: Reacts with acid

Reacts with strong oxidants Reacts with reductants The product is hygroscopic

Hazardous decomposition

products: No known hazardous breakdown products.

11. Toxicological information

Acute oral toxicity: LD50: >2000 mg/kg Rat
Acute dermal toxicity: LD50: >5000 mg/kg Rabbit

Acute inhalation toxicity: not determined Eye irritation: not determined 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: Classification made by the calculation method of the preparation directive

No known toxilogical data

12. Ecological information

Toxicity to fish: LC50(96h): >4000 mg/l (Pimephales promelas)
Toxicity to daphnia: EC50(48h): >4000 mg/l (Daphnia)

Behaviour in environment: not determined
Behaviour in sewage works: not determined
Toxicity to bacteria: not determined

Biological degradability: The product is a little degradable

COD: not determined BOD 5: not determined AOX advice: not applicable 2006/11/EC: not applicable

General advice: Classification made by the calculation method of the preparation directive

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

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13. Disposal considerations

Product: Ask the producer for possible reuse

Uncleaned packaging: Uncontaminated packaging may be taken to recycling centres.

Packaging which cannot be cleaned is regarded as waste and disposed of

as for contents.

European Waste

Catalogue (recommended): 070799

14. Transport information

ADR classification: NOT CLASSIFIED AS "DANGEROUS GOODS"

IMDR classification: NOT CLASSIFIED AS "DANGEROUS GOODS"

IATA classification: NOT CLASSIFIED AS "DANGEROUS GOODS"

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: R-phrases: None
S-phrases: None

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): 00-1

16. Other information

Maintain employment

restrictions for persons: not applicable

VOC (1991/13/EC): 96%

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.