

## SAFETY DATA SHEET

# Multiseal HC 60

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### Trade name

Multiseal HC 60

#### Unique formula identifier (UFI)

VH00-F0DG-600Q-T6K6

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses of the substance or mixture

Hardener

#### Uses advised against

No special

### 1.3. Details of the supplier of the safety data sheet

#### Company and address

##### **Unipak A/S**

Marktoften 3C

8464 Galten

Denmark

+45 8626 1177

www.unipak.dk

#### E-mail

sales@unipak.dk

#### Revision

01-03-2022

#### SDS Version

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Warning

#### Hazard statement(s)

Causes serious eye irritation. (H319)

#### Safety statement(s)

General

-

#### Prevention

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Wear eye protection. (P280)

**Response**

If eye irritation persists: Get medical advice/attention. (P337+P313)

**Storage**

-

**Disposal**

-

**Hazardous substances**

No special

**2.3. Other hazards**

**Additional labelling**

Not applicable

**Additional warnings**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

| Product/substance | Identifiers  | % w/w  | Classification     | Note |
|-------------------|--|--------|--------------------|------|
| calcium chloride  | CAS No.: 10043-52-4<br>EC No.: 233-140-8<br>REACH: 01-2119494219-28<br>Index No.: 017-013-00-2 | 15-25% | Eye Irrit. 2, H319 |      |

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

No special

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

**Skin contact**

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

**Eye contact**

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

**Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

## Burns

Not applicable

### 4.2. Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds.

Some metal oxides.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

> 0°C

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

## Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

|                   |                                      |
|-------------------|--------------------------------------|
| Product/substance | calcium chloride                     |
| DNEL              | 10 mg/m <sup>3</sup>                 |
| Route of exposure |                                      |
| Duration          | Short term – Local effects - Workers |

|                   |                                     |
|-------------------|-------------------------------------|
| Product/substance | calcium chloride                    |
| DNEL              | 5 mg/m <sup>3</sup>                 |
| Route of exposure |                                     |
| Duration          | Long term – Local effects - Workers |

#### PNEC

No data available

### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements

#### Individual protection measures, such as personal protective equipment

##### Generally

Use only CE marked protective equipment.

##### Respiratory Equipment


| Type                              | Class | Colour | Standards |
|-----------------------------------|-------|--------|-----------|
| No special when used as intended. |       |        |           |

##### Skin protection


| Recommended                      | Type/Category | Standards |
|----------------------------------|---------------|-----------|
| No special when used as intended |               |           |

##### Hand protection

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

| Work situation                                      | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |   |
|---|----------|----------------------|--------------------------|-----------|---|
| In the likelihood of direct or incidental exposure. | Nitrile  | 0,3                  | 120                      | EN374-2   |  |

## Eye protection

| Type                                   | Standards |   |
|--|-----------|---|
| Wear safety glasses with side shields. | EN166     |  |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Form

Liquid

#### Colour

Colourless

#### Odour

None

#### Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

#### pH

8

#### Density (g/cm<sup>3</sup>)

1.153

#### Viscosity

Testing not relevant or not possible due to nature of the product.

#### Phase changes

##### Melting point (°C)

Testing not relevant or not possible due to nature of the product.

##### Boiling point (°C)

100 - 105

##### Vapour pressure

Testing not relevant or not possible due to nature of the product.

##### Vapour density

Testing not relevant or not possible due to nature of the product.

##### Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

##### Evaporation rate (n-butylacetate = 100)

#### Data on fire and explosion hazards

##### Flash point (°C)

Testing not relevant or not possible due to nature of the product.

##### Ignition (°C)

Testing not relevant or not possible due to nature of the product.

##### Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

##### Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

##### Explosive properties

Testing not relevant or not possible due to nature of the product.

## Oxidizing properties

Testing not relevant or not possible due to nature of the product.

## Solubility

### Solubility in water

Soluble

### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

### Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

## 9.2. Other information

### VOC (g/l)

0

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

No special

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       | OECD 401         |
| Species           | Rat              |
| Route of exposure | Oral             |
| Test              | LD50             |
| Result            | 2120 mg/kg ·     |
| Other information |                  |

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       |                  |
| Species           | Rabbit           |
| Route of exposure | Dermal           |
| Test              | LD50             |
| Result            | >5000 mg/kg ·    |
| Other information |                  |

#### Skin corrosion/irritation

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       | OECD 404         |

|                   |   |
|-------------------|---|
| Species           | Rabbit                                      |
| Duration          |   |
| Result            | No adverse effect observed (Not irritating) |
| Other information |   |

### Serious eye damage/irritation

|                   |                                      |
|-------------------|--------------------------------------|
| Product/substance | calcium chloride                     |
| Test method       | OECD 405                             |
| Species           | Rabbit                               |
| Duration          |                                      |
| Result            | Adverse effect observed (Irritating) |
| Other information |                                      |

Causes serious eye irritation.

### Respiratory sensitisation

Based on available data, the classification criteria are not met.

### Skin sensitisation

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       | OECD 414         |
| Species           | Rabbit           |
| Duration          |                  |
| Test              | NOAEL            |
| Result            | 169 mg/kg        |
| Conclusion        |                  |
| Other information |                  |

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Other information

No special

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       |                  |

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

|                   |             |
|-------------------|-------------|
| Species           | Fish        |
| Compartment       |             |
| Duration          | 96 hours    |
| Test              | LC50        |
| Result            | 4630 mg/L · |
| Other information |             |

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       |                  |
| Species           | Daphnia          |
| Compartment       |                  |
| Duration          | 48 hours         |
| Test              | LC50             |
| Result            | 2400 mg/L ·      |
| Other information |                  |

|                   |                  |
|-------------------|------------------|
| Product/substance | calcium chloride |
| Test method       |                  |
| Species           | Algae            |
| Compartment       |                  |
| Duration          | 72 hours         |
| Test              | EC50             |
| Result            | 2900 mg/L ·      |
| Other information |                  |

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## 12.6. Other adverse effects

No special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

### EWC code

06 03 14 Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

### Specific labelling

Not applicable

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

#### 14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

Not applicable

#### IMDG

Not applicable

"MARINE POLLUTANT"

No

#### IATA

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Restrictions for application

Restricted to professional users.

##### Demands for specific education

No specific requirements

##### SEVESO - Categories / dangerous substances

Not applicable

##### Additional information

Not applicable

##### Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H319, Causes serious eye irritation.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

#### The safety data sheet is validated by

tn

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en