SAFETY DATA SHEET

# mira 4650 aqua stop flexibel

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

1.1. Product identifier

Trade name

mira 4650 aqua stop flexibel

Product no.

2210758

Unique formula identifier (UFI)

37VD-X0T3-0001-RW01

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

Relevant identified uses of the substance or mixture

Cement-based construction products

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

**mira byggeprodukter a/s**
Egegårdsvej 2
4621 Gadstrup
+45 46 19 19 46
www.mira.eu.com

Contact person

-

E-mail

info@mira.eu.com

SDS date

2021-05-12

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

Skin Irrit. 2; H315, Causes skin irritation.

Eye Dam. 1; H318, Causes serious eye damage.

STOT SE 3; H335, May cause respiratory irritation.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Safety statement(s)

General

P102, Keep out of reach of children.

Prevention

P261, Avoid breathing dust.
P280, Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P310, IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

-

Disposal

P501, Dispose of contents/container to an approved waste disposal plant.

Hazardous substances

Sand
Cement, portland, chemicals (white)
Limestone
Calcium diformate
Titanium dioxide

2.3. Other hazards

Additional labelling

The content of water-soluble chromate is less than 2 ppm in dry storage up to 12 months from production date. If stored under moist conditions, chromate reduction may be impaired.

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
Upon mixing the product with water it will become corrosive.
When wet concrete or mortar is trapped against the skin by falling inside a worker's boots or gloves or by soaking through protective clothing—the result may be first, second, or third degree burns.
The product contains quartz; working processes in which respirable quartz dust can be developed are covered by the EU cancer Regulation.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---|---|---|---|---|
| Cement, portland, chemicals (white) | CAS No.: 65997-15-1<br>EC No.: 266-043-4<br>REACH:<br>Index No.: | 25-40% | STOT SE 3, H335<br>Eye Dam. 1, H318<br>Skin Irrit. 2, H315 | |
| Limestone | CAS No.: 1317-65-3<br>EC No.: 215-279-6<br>REACH: | 1-3% | Skin Irrit. 2, H315<br>STOT SE 3, H335 | |

| | | |
|---|---|---|
| | Index No.: | |
| Titanium dioxide | CAS No.: 13463-67-7<br>EC No.: 236-675-5<br>REACH:<br>Index No.: | <1% |

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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

Skin in contact with wet cement should be washed immediately with large amounts of cool clean water.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

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

Workers using cement may develop an allergy to chromium, with symptoms ranging from a mild rash to severe skin ulcers. In addition to skin reactions, hexavalent chromium can cause occupational asthma. Symptoms include wheezing and difficulty breathing. Workers may develop both skin and respiratory allergies to hexavalent chromium.

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 exposed or concerned:
Get immediate 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:
Carbon oxides (CO / CO2).
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

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.
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

Avoid direct contact with the product.
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.
Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material

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

Storage temperature

Store in a closed original container in a dry and well-ventilated place.

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

—
Cement, portland, chemicals (white)
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

—
Limestone

Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

| | |
|---|---|
| **Product/substance** | Calcium diformate |
| **DNEL** | 337 mg/m³ |
| **Route of exposure** | Inhalation |
| **Duration** | Long term – Systemic effects |
| **Product/substance** | Calcium diformate |
| **DNEL** | 4780 mg/kg |
| **Route of exposure** | Dermal |
| **Duration** | Long term – Systemic effects |

PNEC

No data available

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Provide adequate hygiene facilities on site for workers to wash hands and face at the end of a job and before eating, drinking, smoking, or using the toilet. Facilities for cleaning boots and changing clothes should also be available.

Clothing contaminated by wet cement should be quickly removed. Skin in contact with wet cement should be washed immediately with large amounts of cool clean water.

If possible, avoid working processes where respiratory quartz dust may be developed.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Mix dry cement in well-ventilated areas.

Work in ways that minimize the amount of cement dust released.

In connection with work processes in which respirable quartz dust can be developed e.g. when cutting and drilling in concrete, extracted air must not be recycled according to EU Cancer Regulation.

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.

Don’t wash your hands with water from buckets used for cleaning tools.

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

| Work situation | Type | Class | Colour | Standards | |
|---|---|---|---|---|---|
| | For dusty work use a dust mask with particle filter P2. | | | |  |

Skin protection

| Work situation | Recommended | Type/Category | Standards |
|---|---|---|---|
| | Remove soiled clothing and wash skin thoroughly with soap and water when work is complete. | | |

Hand protection

| Work situation | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|---|---|---|---|---|
| | Protective gloves made of eg PVC, neoprene and vinyl | | | |  |

Eye protection

| Work situation | Type | Standards | |
|---|---|---|---|
| | Safety glasses | |  |

## SECTION 9: Physical and chemical properties

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

Form

Powder

Colour

White

Odour

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

Odour threshold (ppm)

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

pH

11 - 13 (20° C)

Density (g/cm³)

1450000.00

Viscosity

Does not apply to solids.

Phase changes

Melting point (°C)

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

Boiling point (°C)

Does not apply to solids.

Vapour pressure
Testing not relevant or not possible due to nature of the product.
Vapour density
Does not apply to solids.
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)
Does not apply to solids.
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)
Does not apply to solids.
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

## 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 diformate |
| **Test method** | |
| **Species** | Rat |

| | |
|---|---|
| **Route of exposure** | Oral |
| **Test** | LD50 |
| **Result** | 2650 mg/kg |
| **Other information** | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

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

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

STOT-single exposure

May cause respiratory irritation.

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

Sand has been classified by IARC as a group 1 carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

| | |
|---|---|
| **Product/substance** | Calcium diformate |
| **Test method** | |
| **Species** | Fish |
| **Compartment** | |
| **Duration** | 48 hours |
| **Test** | LC50 |
| **Result** | >1000 mg/L |
| **Other information** | |
| **Product/substance** | Calcium diformate |
| **Test method** | |

| | |
|---|---|
| **Species** | Daphnia |
| **Compartment** | |
| **Duration** | 48 hours |
| **Test** | EC50 |
| **Result** | >1000 mg/L |
| **Other information** | |
| **Product/substance** | Calcium diformate |
| **Test method** | |
| **Species** | Algae |
| **Compartment** | |
| **Duration** | 72 hours |
| **Test** | EC50 |
| **Result** | >1000 mg/L |
| **Other information** | |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

Calcium diformate

LogKoc = 1.49, High mobility potential.

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 covered by the regulations on hazardous waste.
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
Avoid discharge to lakes, streams, sewers, etc.
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

| | |
|---|---|
| 17 09 03 | Other construction and demolition wastes (including mixed wastes) containing dangerous substances - Unhardened material |
| 17 09 04 | Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 - Fully hardened material |

Specific labelling

Not applicable

Contaminated packing

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

## SECTION 14: Transport information

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

No special

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

## SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H335, May cause respiratory irritation.
H318, Causes serious eye damage.
H315, Causes skin 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
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

Reyhane r. Kanafi

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