SAFETY DATA SHEET

Hey'di Sealer Waterproofer

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	22.10.2012
Revision date	29.06.2018

1.1. Product identifier

Product name	Hey'di Sealer Waterproofer
Article no.	2681, 2682, 2683
GTIN No.	7054150026819, 7054150026826,7054150026833

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

Function	Description: For sealing of concrete surfaces.
Use categories nordic (UCN).	U05300
Use of the substance / mixture	For dust binding and reinforcement of all cement-based substrates.
Relevant identified uses	SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU19 Building and construction work SU21 Consumer uses: Private households (= general public = consumers) PC1 Adhesives, Sealants PC10 Building and construction substances not covered elsewhere PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 Roller application or brushing ERC2 Formulation of preparations ERC8C Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8F Wide dispersive outdoor use resulting in inclusion into or onto a matrix
Uses advised against	Minimum application temperature is +5 °C. NB! Do not use on bricks and stone materials.
Standard industrial classification (NACE)	23.650

The chemical can be used by the general public	Yes

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	HeyDi AS
Office address	Tretjerndalsvegen 68
Postcode	N-2016
City	Frogner
Country	Norway
Telephone number	+47 63868800
Email	heydi@heydi.no
Website	www.heydi.no
Enterprise No.	979657919
Contact person	Alan Ulstad

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: The National Poisons Information Centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1A; H314
Substance / mixture hazardous properties	Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Methylsilanetriol potassiumsalt. < 1 %, Lithiumhydroxide < 1 %
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice / attention.

	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P405 Store locked up. P501Dispose of contents / container to licensed waste disposal site in accordance with local Waste Disposal Authority.
Tactile warnings	Yes
Child-protection	Yes
VOC	Product subcategory : Primer Maximum content of VOC: 30 g/l Innehold. 0 g/l

2.3. Other hazards

PBT / vPvB	This product does not contain any PBT or vPvB substances.
Health effect	The liquid is strongly irritating to eyes and skin.
Environmental effects	See sections 12 and 13. The product is not classified as environmentally harmful. Spills and contamination should be avoided.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Methylsilanetriol potassiumsalt.	CAS No.: 31795-24-1 EC No.: 250-807-9 REACH Reg. No.: 01-2119517439-34	Skin Corr. 1A; H314; Eye Dam. 1; H318; Met. Corr. 1; H290;	< 1 %	
Lithiumhydroxide	CAS No.: 1310-65-2 EC No.: 215-183-4 REACH Reg. No.: 01-2119560576-31	Skin Corr. 1B; H314 Acute Tox. 4; H302	< 1 %	

Description of the mixture	Aqueous silicate compound.
Remarks, substance	Mol ratio of SiO2 to K2O is 3.33. According to tests carried out by CEFIC, Potassium silicate solutions with a mol ratio of > 3.2 and dry matter content < 40% by weight do not require labelling.
Substance comments	The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination. Contaminated clothing should be removed immediately. If medical advice is needed, have product container, label or safety data sheet at hand.
Inhalation	Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly with soap and water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

Ingestion	Drink plenty of water. Do not induce vomiting. Get medical attention.

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

General symptoms and effects	Eye contact may cause deep burns, pain, tearing and cramping of the eyelids. Corrosive and causes burning pain, redness, blistering and etching on skin contact.

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

Medical treatment	Symptomatic treatment.
Information on clinical testing	Not known.
Separate first aid equipment	Easy access to water or an emergency shower is neccessary. Antiseptic ointment should be available. There must be an opportunity for eye cleaning in the workplace.
Other information	See description of first aid measures in section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	CO2, foam, dry chemical and water fog. Sand, soil etc. can also be used.
Improper extinguishing media	Water jet

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is water based and in wet form the fire hazard is low. The dried product is combustible. Decomposition products can be toxic.
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Personal protective equipment	Use fresh air equipment when the product is involved in fire.
Fire fighting procedures	Use extinguishing measures appropriate to local circumstances and the surrounding environment. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Firefighters should use adequate protection.
Other information	Move container from fire area if possible without risk. Contact with acids liberates toxic gas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Use personal protective equipment as specified in section 8. Avoid contact with eyes and skin.
Personal protection measures	Use the specified protective equipment. See section 8.
Emergency procedures	Stop leak if safe to do so.

For emergency responders	Use the specified safety equipment. See section 8

6.2. Environmental precautions

Environmental precautionary measures	Do not discharge onto the ground or into water courses. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Containment	Store in a closed container. Store locked up. Store in a well-ventilated place.
Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Product residues should be delivered to a hazardous waste disposal site. Clean contaminated floors and objects thoroughly. NB - slippery floors.

6.4. Reference to other sections

Other instructions	See section 1 for emergency contact information. See section 8 for information on appropriate personal equipment. See section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Container must be kept tightly closed. Use appropriate protective equipment as described in section 8 when handling open containers. When using do not eat, drink or smoke. Work practice should minimize contact. Avoid spilling, skin and eye contact. Provide easy access to water supply and eye wash facilities. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Protective safety measures

Safety measures to prevent fire	Store in a well-ventilated place. Keep container tightly closed.
Preventititve measures to protect the environment	Do not discharge into drains, soil or streams.
Advice on general occupational hygiene	Do not eat, drink or smoke in areas where this material is handled. Provide easy access to water supply and eye wash facilities. Good personal hygiene is necessary. Wash hands and contaminated areas before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep out of reach of children. Store locked up. Store in tightly closed original container in a well-ventilated place.
Conditions to avoid	Avoid contact with: Aluminum, lead, zinc, tin or alloys thereof. Avoid contact with acids.

Conditions for safe storage

Packaging compatibilities	Store in tightly sealed original packaging. Do NOT use containers of: Light metal alloys or Aluminium. Glass. Ceramics. Zinc.

Requirements for storage rooms and vessels	Keep container tightly closed.
Advice on storage compatability	Isolate from: Acids.
Additional information on storage conditions	Store in a well-ventilated place. Keep cool.
Storage temperature	Value: > +2 °C Comments: Keep away from freezing.
Storage stability	No recommendation given.

7.3. Specific end use(s)

Recommendations	Read the description in the technical datasheet about surface treatment before use.
Specific use(s)	For dust binding and reinforcement of all cement-based substrates.

SECTION 8: Exposure controls / personal protection

Comments if preventive industrial medical examinations are to be carried out	A need for preventive occupational medical examinations is not indicated.

8.1. Control parameters

Other Information about threshold limit values	Not known.
Biological limit value	Not known.

8.2. Exposure controls

Safety signs

Precautionary measures to prevent exposure

Appropriate engineering controls	Observe occupational exposure limits and minimize the risk of inhalation of vapours.
Instruction on measures to prevent exposure	Ensure that eyewash stations are close to the workstation location. When using do not eat, drink or smoke. The usual precautions for handling chemicals should be followed. Change work clothing daily if there is any possibility of contamination. Ensure use of recommended protective equipment and protective clothing.
Organisational measures to prevent exposure	All work must be planned to ensure minimal inhalation of vapors and spillage on the skin.
Technical measures to prevent exposure	Provide adequate general and local exhaust ventilation.

Eye / face protection

Suitable eye protection	Wear tight-fitting goggles or face shield.
Eye protection equipment	Description: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN 166
Eye protection, comments	Contact lenses should not be worn when working with this chemical!

Hand protection

Suitable gloves type	Neoprene, nitrile, polyethylene or PVC.
Breakthrough time	Value: > 120 minute(s)
Hand protection equipment	Description: Neoprene, nitrile, polyethylene or PVC. Reference to relevant standard: EN 374
Hand protection, comments	Prolonged or repeated skin contact may cause drying of the skin and risk of cracking.

Skin protection

Suitable protective clothing	Wear appropriate clothing to prevent any possibility of skin contact.
Protective clothing necessary properties	Wear suitable protective clothing as protection against splashing or contamination.
Recommended protective clothing	Description: Wear appropriate clothing to prevent any possibility of skin contact. Reference to relevant standard: ISO 13688
Skin protection remark	Prolonged or repeated skin contact may lead to dry skin with risk of cracking.

Respiratory protection

Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.
Recommended respiratory protection	Mask type: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2). Reference to relevant standard: EN 136/140/145
Additional respiratory protection measures	Provide sufficient ventilation during operations which cause vapour formation.

Thermal hazards

Thermal hazards	Not relevant.

Hygiene / environmental

Specific hygiene measures	When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Appropriate environmental exposure control

Environmental exposure controls	The product must not be discharged directly into drains or waterways without treatment.

Exposure controls

Safety measures for consumer use of the chemical	Use the specified safety equipment. See section 8. Follow the label instructions.
Exposure controls and personal protection, additional information	All protection should be CE marked. Contaminated clothes should be laundered before reuse.
Exposure controls, comments	Do not eat, drink or smoke while handling the product. Wash hands before breaks, lavatory and before leaving the work site. Use appropriate skin cream to prevent drying of skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Clear
Odour	None.
pH	Status: In delivery state Value: ~ 11,8
Melting point / melting range	Comments: Not relevant.
Freezing point	Value: 0 °C
Boiling point / boiling range	Value: > 100
Flash point	Comments: Not known.
Evaporation rate	Comments: Not known.
Explosion limit	Comments: Not relevant.
Vapour pressure	Value: ~ 2,2 kPa
Vapour density	Comments: Not known.
Relative density	Value: ~ 1150 kg/m³
Solubility	Medium: Water
Partition coefficient: n-octanol/ water	Comments: Not known.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Comments: Not known.
Explosive properties	No explosive properties.
Oxidising properties	No oxidizing properties.

9.2. Other information

Physical hazards

Miscibility	Easily soluble in water.
Conductivity	Comments: Not known.
Solvent content	Comments: None.

Particle size	Comments: Not relevant.
Critical pressure	Comments: Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Contact with acids liberates toxic gas.

10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Strong exothermic reaction with acids. Reacts with light metals to form hydrogen peroxide.

10.4. Conditions to avoid

Conditions to avoid	Avoid contact with acids.

10.5. Incompatible materials

Materials to avoid	Avoid contact with: Aluminum, lead, zinc, tin or alloys thereof.

10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products when handled and stored properly.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance	Lithiumhydroxide
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** 210 mg/kg **Animal test species:** rat

Other information regarding health hazards

Toxicokinetics	No recommendation given.
Assessment of skin corrosion / irritation, classification	Causes severe skin burns.
Assessment of eye damage or irritation, classification	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.
Inhalation	Vapors may irritate the respiratory tract.
Skin contact	Causes severe skin burns.

Eye contact	Highly corrosive and induces severe pain and severe eye damage. Immediate first aid is required.
Ingestion	Corrosive effect on the lining of the mouth, throat and stomach, causing severe pain.
Sensitisation	No basis for classification as a sensitizer.
Mutagenicity	No recommendation given.
Carcinogenicity, other information	No recommendation given.
Reproductive toxicity	No recommendation given.
Comparison of CMR categories	The substance does not meet the criteria for classification in terms of CRM properties under CLP.

Symptoms of exposure

In case of ingestion	May cause chemical burns in mouth and throat.
In case of skin contact	Chemical burns.
In case of inhalation	Vapour may irritate respiratory system or lungs.
In case of eye contact	Corrosive. Immediate first aid is necessary. Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Lithiumhydroxide
Aquatic toxicity, crustacean	**Toxicity type:** Acute **Value:** 19,1 mg/l **Test duration:** 48 hour(s) **Method:** EC50
Substance	Lithiumhydroxide
Toxicity to bacteria	**Toxicity type:** Acute **Value:** 79,2 mg/l **Effect dose concentration:** EC10 **Exposure time:** 3 hour(s)
Ecotoxicity	Concentrated product must not be led into sewers or water courses or be deposited where it can affect ground or surface waters.
Aquatic, comments	Not classified as dangerous for the environment. However, the product must not be discharged into drains or water courses or deposited where it can affect ground or surface waters.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	This product does not contain any PBT or vPvB substances.
Persistence and degradability, comments	The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.

12.4. Mobility in soil

Mobility	Miscible with water.

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
vPvB evaluation results	The product contains no PBT or vPvB substances.

12.6. Other adverse effects

Other adverse effects, comments	Avoid discharge to sewer, waterway or ground.
Environmental details, summation	The product is not classified as environmentally harmful. Spills and contamination should be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not allow runoff to sewer, waterway or ground. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.
EWC waste code	EWC waste code: 161001 aqueous liquid wastes containing dangerous substances Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: Yes
National regulations	Regulation 01.06 2004 nr. 930, on recycling of waste with subsequent amendments. Guidelines (Norsas) on collection and declaration of hazardous waste (2015).
NORSAS	7097
Other information	Packaging can be reused after cleaning. Packaging that cannot be cleaned should be disposed of in the same manner as the product.

SECTION 14: Transport information

Dangerous goods	Yes

14.1. UN number

ADR/RID/ADN	3267
IMDG	3267
ICAO/IATA	3267

14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
ADR/RID/ADN	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
IMDG	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
ICAO/IATA	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

ADR/RID/ADN	8
Classificaton code ADR/RID/ADN	C7
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

Product name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Additional information

Hazard label ADR/RID/ADN	8
Hazard label IMDG	8
Hazard label ICAO/IATA	8

ADR/RID Other information

Tunnel restriction code	E
Transport category	2
Hazard No.	80
Other applicable information ADR/RID	80

IMDG Other information

EmS	F-A, S-B
Limited quantity	LQ E2

SECTION 15: Regulatory information

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

Assessed restrictions	By assessment no identified restrictions.
Restriction of chemicals according to Annex XVII (REACH)	No restrictions identified.
Other labelling requirements	No other labeling requirements.
Fluorinated greenhouse gases, method	Not relevant.
Fluorinated greenhouse gases, comments	Not relevant.
Other label information	Not relevant.
EU occupational restrictions	No restrictions identified.
Biocides	No
Nanomaterial	No
References (laws/regulations)	EU Regulation No. 1907/2006 (REACH) Title IV, art. 31 and Annex II. EU Regulation on classification labeling and packaging of substances and preparations (abbreviated CLP) (EC)) No 1272/2008 Annex XIV - List of substances subject to authorization. Substances that give great cause for concern. Annex XVII - Restrictions on the production, marketing and use of certain hazardous substances. Regulation 704 on occupational limit values with changes. EU Waste regulation (EU) nr. 413/2010 with changes ADR / RID 2017 Regulation No. 384 01 April 2009.
Declaration No.	600852

15.2. Chemical safety assessment

Chemical safety assessment performed	No
CSR required	No
Additional regulatory information	None.

SECTION 16: Other information

Supplier's notes	Information provided in the safety data sheet is prepared on the basis of information supplied by subcontractors, and according to information in our possession at the last entered revision date. The information is to be regarded as guidelines for safe use, processing, storage and transportation. It is assumed that the product is used in accordance with the description on the packaging or in the technical data sheet/product data sheet prepared by Hey'di AS. Any other use of the product, if necessary in combination with other products or processes are not recommended, unless otherwise agreed with Hey'di AS.
List of relevant H-phrases (Section 2 and 3)	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes Serious eye damage.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1A; H314
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