



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	12.03.2007
Revision date	11.04.2019

1.1. Product identifier

Product name	Hey'di Klinkervask
Article no.	629
GTIN No.	7054150006293

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

Function	Description: Special detergent for washing of unglazed floor tiles, natural stone etc.
Use categories nordic (UCN).	R10990
Use of the substance / mixture	Detergent for daily cleaning of unglazed tiles, brick tiles, natural stone etc. Provides the surface with a protective finish that prevents lime, dirt and grease from binding to the surface.
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) SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen) PC35 Washing and cleaning products (including solvent based products) PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC19 Hand-mixing in close conditions and only PPE available. ERC2 Formulation of preparations
Standard industrial classification (NACE)	23.650

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	HeyDi AS
Office address	Tretjerdalsvegen 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
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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. For further information, please refer to section 11.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Caustic potash 1 - 3 %
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. P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. P405 Store locked up. P501 Dispose of contents / container to licensed waste disposal site in accordance with local Waste Disposal Authority.

Tactile warnings	Yes
Child-protection	Yes

2.3. Other hazards

Environmental effects	Not Classified as PBT/vPvB by current EU criteria. Contains no phosphates
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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Alcohols, C12-14, ethoxylated sulphates, sodium salt.	CAS No.: 68891-38-3 EC No.: 500-234-8 REACH Reg. No.: 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	1 - 5 %	
Caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8	Acute tox. 4; H302 Skin Corr. 1A; H314	1 - 3 %	
Tetrapotassium pyrophosphate	CAS No.: 7320-34-5 EC No.: 230-785-7 REACH Reg. No.: 01-2119489369-18	Eye Irrit. 2; H319	< 0,5 %	

Description of the mixture	Waterbased cleaner. NO PHOSPHATE. The product should be diluted before use. All the information in this data sheet are for the concentrated product.
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Substance comments	The full text for all hazard statements is displayed in section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move into fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation persists after washing.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately!
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Acute symptoms and effects	Causes serious eye damage.
Delayed symptoms and effects	If eye irritation persists: Get medical advice/attention.

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

Medical treatment	Symptomatic treatment.
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Other information	General health check.
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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	None.
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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.
Special protective equipment for firefighters	Firefighters should use adequate protection.
Other information	Containers close to fire should be removed or cooled with water.

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 release to the environment.
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 Absorb spillage to prevent material damage.

6.2. Environmental precautions

Environmental precautionary measures	Do not discharge into drains, water courses or onto the ground. Limit the contaminated area to avoid further spread. Contain spillages with sand, earth or any suitable adsorbent material.
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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. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Collect and reclaim or dispose in sealed containers to a licenced waste operator.

6.4. Reference to other sections

Other instructions	See section 1 for emergency contact information.
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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	Use appropriate protective equipment as described in section 8 when handling open containers. When using do not eat, drink or smoke. When using do not eat, drink or smoke. Work practice should minimize contact. Before use, see operating instructions on the packaging. Provide ventilation when work is in progress.
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Protective safety measures

Safety measures to prevent fire	Store in a well-ventilated place. Keep container tightly closed.
Preventitive measures to protect the environment	Concentrate must not be discharged into drains, soil or waterways.
Advice on general occupational hygiene	Do not eat, drink or smoke in areas where this material is handled. First-aid equipment, including eye wash bottle, must be available at the work site. 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.
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Conditions for safe storage

Packaging compatibilities	Store in tightly sealed original packaging.
Advice on storage compatability	No recommendation given.
Additional information on storage conditions	Protect from sunlight.
Storage temperature	Value: ~ 15 - 25 °C

7.3. Specific end use(s)

Recommendations	Read the description in the technical datasheet about surface treatment before use.
Specific use(s)	Special detergent for washing of unglazed floor tiles, natural stone etc.

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.
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8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Alcohols, C12-14,	CAS No.: 68891-38-3		

ethoxylated sulphates,
sodium salt.

Caustic potash	CAS No.: 1310-58-3	Limit value (short term) Value: 2 mg/m ³ Peak limitation value Peak limitation value: 2 mg/m ³
Oil mist (mineral oil particle)		Limit value (8 h) : 1 mg/m ³

DNEL / PNEC

Substance	Alcohols, C12-14, ethoxylated sulphates, sodium salt.
DNEL	<p>Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 1650 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 52 mg/m³</p> <p>Group: Industrial Route of exposure: Long-term inhalation (local) Value: 2750 mg/kg bw/day</p> <p>Group: Industrial Route of exposure: Long-term inhalation (systemic) Value: 175 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 15 mg/kg bw/day</p>
PNEC	<p>Route of exposure: Sewage treatment plant STP Value: 10000 mg/l</p> <p>Route of exposure: Air Value: 0,071 mg/l</p> <p>Route of exposure: Soil Value: 0,946 mg/kg</p> <p>Route of exposure: Freshwater sediments Value: 5,45 mg/kg</p> <p>Route of exposure: Freshwater Value: 0,24 mg/l</p> <p>Route of exposure: Saltwater sediments Value: 0,545 mg/kg</p> <p>Route of exposure: Saltwater Value: 0,024 mg/l</p>

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. The usual precautions for handling chemicals should be followed.
Organisational measures to prevent exposure	All work must be planned to ensure minimal inhalation of vapors and contact with skin.
Technical measures to prevent exposure	Must not be handled in confined space without sufficient ventilation.

Eye / face protection

Eye protection equipment	Description: If risk of splashing, wear safety goggles or face shield. Reference to relevant standard: EN 166
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Hand protection

Suitable gloves type	Gloves of nitrile rubber, PVA or Viton are recommended.
Breakthrough time	Value: > 480 minute(s)
Hand protection equipment	Description: Gloves of nitrile rubber, PVA or Viton are recommended. 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 suitable protective clothing.
Recommended protective clothing	Description: In case of direct contact or splash, wear protective clothing. Reference to relevant standard: ISO 13688
Additional skin protection measures	It is recommended that you wash or shower and then apply moisturizer to the exposed skin.
Skin protection remark	Prolonged or repeated skin contact may lead to dry skin with risk of cracking.

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	None.
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Hygiene / environmental

Specific hygiene measures	When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
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Appropriate environmental exposure control

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

Safety measures for consumer use of the chemical	Use the specified safety equipment. See section 8. Follow the label instructions. If medical advice is needed, have product container or label at hand.
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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear
Odour	Slight odour.
pH	Status: In delivery state Value: ~ 13,0
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Value: > 100 °C
Flash point	Comments: Not known.
Evaporation rate	Comments: Not known.
Vapour pressure	Comments: Not known.
Relative density	Value: ~ 980 kg/m ³
Solubility	Medium: Water Comments: Miscible with water.
Partition coefficient: n-octanol/water	Comments: Not known.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not known.
Viscosity	Comments: Not known.
Explosive properties	No explosive properties.

Oxidising properties	No oxidizing properties.
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9.2. Other information

Physical hazards

Miscibility	Miscible with water.
Particle size	Comments: Not relevant.

Other physical and chemical properties

Comments	Information given concerns the concentrated solution.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No hazardous reactions if regulations/notes for storage and handling are observed.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No dangerous reactions are expected when used correctly.
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10.4. Conditions to avoid

Conditions to avoid	Store in temperatur > 15°C. Protect from sunlight. No dangerous reactions are expected when used correctly.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents, acids and bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Sulphur. Carbon. Nitrous gases (NOx).
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SECTION 11: Toxicological information

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

Substance	Alcohols, C12-14, ethoxylated sulphates, sodium salt.
Acute toxicity	Type of toxicity: Acute Effect tested: LOEC Route of exposure: Oral Value: 4100 mg/kg Animal test species: rat Type of toxicity: Acute

	<p>Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: rat</p> <p>Type of toxicity: Sexual reproduction function Effect tested: NOAEL Route of exposure: Oral Method: OECD 416 Value: > 300 mg/kg Animal test species: rat</p> <p>Type of toxicity: Reproductive / developmental toxicity Effect tested: NOAEL Route of exposure: Oral Method: OECD 414 Value: > 1000 mg/kg Animal test species: rat</p>
Substance	Caustic potash
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 365 mg/kg Animal test species: Rat</p> <p>Type of toxicity: Acute Effect tested: LD50 Animal test species: Rabbit Comments: Highly corrosive.</p>
Substance	Tetrapotassium pyrophosphate
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 7940 mg/kg Animal test species: Rabbit</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg Animal test species: Mouse</p>

Other information regarding health hazards

Assessment of skin corrosion / irritation, classification	Causes severe skin burns.
Assessment of eye damage or irritation, classification	Corrosive. Immediate first aid is necessary.
Inhalation	Vapors may irritate the respiratory tract.
Skin contact	Causes severe skin burns.

Eye contact	Risk of serious eye damage
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.

Symptoms of exposure

In case of ingestion	Chemical burns. However, ingestion may cause nausea, stomach pain and vomiting.
In case of skin contact	Corrosive.
In case of inhalation	Vapours and spray mist may irritate throat and respiratory system and cause coughing.
In case of eye contact	Corrosive.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Alcohols, C12-14, ethoxylated sulphates, sodium salt.
Aquatic toxicity, fish	<p>Value: 7,1 mg/l Test duration: 96 hour(s) Species: Brachydanio rerio. Method: OECD 203</p>
Substance	Caustic potash
Aquatic toxicity, fish	<p>Toxicity type: Acute Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Lepomis macrochirus Comments: pH 10,5</p> <p>Value: 125 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Gambusia affinis. Comments: pH > 9 has a corrosive effect on fish (possibly fish death).</p>
Substance	Tetrapotassium pyrophosphate
Aquatic toxicity, fish	<p>Toxicity type: Acute Value: > 100 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Oncorhynchus mykiss</p> <p>Toxicity type: Acute Value: > 750 mg/l Effect dose concentration: LC0</p>

Substance	Species: Leuciscus idus
Aquatic toxicity, algae	Alcohols, C12-14, ethoxylated sulphates, sodium salt. Value: 27,7 mg/l Effect dose concentration: EC50 Species: Freshwater algae. Method: OECD 201
Substance	Alcohols, C12-14, ethoxylated sulphates, sodium salt.
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 7,4 mg/l Effect dose concentration: EC50 Exposure time: 48 hour(s) Species: Daphnia magna Method: OECD 202
Substance	Caustic potash
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 40 - 240 mg/l Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Daphnia magna
Substance	Tetrapotassium pyrophosphate
Aquatic toxicity, crustacean	Toxicity type: Acute Value: > 100 mg/l Effect dose concentration: LC50 Test duration: 48 hour(s) Species: Daphnia magna Method: OECD 202
Ecotoxicity	Not classified as dangerous to the environment. Concentrated product must not be led into sewers or water courses or be 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	Bioaccumulation not expected.

12.3. Bioaccumulative potential

Bioaccumulative potential	No bioaccumulation is indicated.
Substance	Alcohols, C12-14, ethoxylated sulphates, sodium salt.
Bioconcentration factor (BCF)	Value: < 3

12.4. Mobility in soil**12.5. Results of PBT and vPvB assessment**

vPvB evaluation results	The product contains no PBT or vPvB substances.
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12.6. Other adverse effects

Other adverse effects, comments	Avoid discharge to sewer, waterway or ground.
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Environmental details, summation	The product is not classified as environmentally harmful. Spills and contamination should be avoided.
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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.
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EWC waste code	EWC waste code: 060205 other bases Classified as hazardous waste: Yes
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EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
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	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
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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).
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NORSAS	7132
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SECTION 14: Transport information

Dangerous goods	No
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14.1. UN number**14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user****14.7. Maritime transport in bulk according to IMO instruments****Additional information**

Additional information	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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SECTION 15: Regulatory information

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

Restriction of chemicals according to Annex XVII (REACH)	No restrictions identified.
Other labelling requirements	NO PHOSPHATE.
EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
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 2019 Regulation No. 384 01 April 2009.
Declaration No.	608050

15.2. Chemical safety assessment

Chemical safety assessment performed	No
Exposure scenarios for mixture	No

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)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

Last update date	28.06.2016
User notes	If medical advice is needed, have product container or label at hand.
Version	1
Prepared by	Marit Taraldset
NOBB No.	10722106
URL for user guide	http://www.heydi.no
URL for brochure	http://www.heydi.no
URL for technical data	http://www.heydi.no