

Date of issue: 24 June 2015 Revision date: 24 June 2015
Version 2.0 Contains 8 pages
Product name: Berki Cold® Concentrate



SAFETY DATA SHEET according to EG 1907-2006 (REACH) ANNEX II

1. Identification of the substance or mixture and of the company / undertaking

1.1 Product identification

Product name Berki Cold® Concentrate
Nature of the product Mixture in water

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

Identified use Fire extinguishing agent
Application Professional fire fighting

1.3 Details of the supplier of the safety data sheet

Producer / supplier Berki Brandbeveiliging B.V.
Postbus 6704 6503GE Nijmegen
Einsteinstraat 3 6604BW Wijchen
Netherlands
Telephone +31(0)24-6411066
Fax +31(0)24-6421723
E-mail info@berki.nl
Website www.berki.nl

1.4 Telephone number in case of emergency

Telephone +31(0)24-6411066
NVIC 030-2748888, only for a physician in case of
immediate poisoning.

2. Hazard identification

2.1 Classification of the substances or mixture

Product description Mixture

2.2 Label elements

Labelling according to 67/548 EEG or 1999/45/EC

Not hazardous

S24/25

Labelling according to (EG) 1272/2008 (CLP/GHS)



Warning

Precautionary statements

Do not eat, drink or smoke when using this product.

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Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

See pt. 11 for more information about health effects and symptoms

2.3 Other hazards

Physical / chemical hazards

Product is NO cleaning agent.

Breathing is not possible whilst submerged in the foam. Take care when spraying people.

3. Composition / information on ingredients

Component	Wgt.%	CASnr.	ECnr	67/548/EEG	GHS
1,2 ethandiol	< 4%	107-21-1	203-473-3	Xn R22	H302
2-(2-butxyethoxy)ethanol	< 3%	112-34-5	203-961-6	Xi R36	H319
Triethanolammonium- Laurylsulfate	< 3%	85665-45-8	288-134-8	Xi R36	H319
Alkylamidobetaine	< 2%	147170-44-3	263-058-8	Xi R36	H319
Coldfire JG302	≥ 60%	no	no	no	no
Plant extract	< 15%	8001-97-6	no	no	no

For full text of R-, S-, P-, H- and EUH-phrases: see section 16

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4. First aid measures

4.1 Description of the first aid measures

- General:** Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). Observe risk of aspiration if vomiting occurs. When in doubt or if symptoms are observed, get medical advice.
- Inhalation:** Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show packaging or label.
- Skin contact:** Wash immediately with plenty of water.
- Eye contact:** Flush immediately with plenty of flowing water for > 10 minute, holding eyelid apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do
- If swallowed:** DO NOT induce vomiting. If accidentally swallowed, rinse mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Drowsiness
Nausea
Gastrointestinal complaints

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

If unconscious place in recovery position and seek medical advice
IF SWALLOWED immediately call a POISON CENTRE or doctor/physician

5. Firefighting measures

Product does not burn(= firefighting agent!).
Collect contaminated fire extinguishing water separately. Do not allow entering drains of surface water

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

Prevent the product to enter into soil / subsoil or surface water or drains..

6.3 Methods and material for containment and cleaning up

Take up spills mechanically or with sand, sawdust or chemical binder. Small spills can be flushed to the drain with plenty of water.

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6.4 Reference to other sections

See also pt. 7 and pt. 8

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not drink, eat or smoke during use.
Wear suitable personal protection equipment (see pt. 8).
No specific fire protection measures necessary, product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities

Store in supplied packages in well ventilated storage rooms. Temperatures not above 50°C.
Do not use metal containers, only Refined Steel or Polyethylene (PE) containers. Storage class: 12 – Non combustible liquids

7.3 Specific end use(s)

Fire-extinguishing foams, do not use for cleaning purposes. See pt. 1.2
Observe technical datasheet.

8. Exposure control / personal protection

8.1 Control parameters

2-(2-Butoxyethoxy)ethanol

EC OCCUPATIONAL EXPOSURE LIMIT VALUES

Commission Directive 2006/15/EC

Recommended indicative occupational exposure limit value for the European Community

A national occupational exposure limit value has to be set.

8 hours limit value: 67,5 mg/m³ (10 ppm)

Short term limit value: 101,2 mg/m³ (15 ppm)

1,2-ethaandiol

EC OCCUPATIONAL EXPOSURE LIMIT VALUES

Commission Directive 2000/39/EC

Recommended indicative occupational exposure limit value for the European Community

A national occupational exposure limit value has to be set.

8 hours limit value: 52 mg/m³ (20 ppm)

Short term limit value: 104 mg/m³ (40 ppm)

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8.2 Exposure control

Technical protection

Ventilate well, in closed rooms use exhaustion.

Do not eat, drink or smoke during use. Wash hands before break and after working time.

Do not use contaminated clothing and remove directly after contamination.

Personal protection

Use well-fitting eye protection (side protection and face protection).

Use gloves with long cuffs, made of nitrile rubber or butyl rubber.

Wear suitable working clothes.

9. Physical and chemical properties

Physical state:	liquid
Color:	colourless - yellow
Smell:	neutral to fresh
pH value:	6,5 – 8,5
Density:	1.033 g/cm ³
Boiling point:	100 °C
Self-ignition temp.:	not available
Water solubility:	complete
Shelf life:	Unlimited when stored in closed container between 0°C and 50°C.

Additional information:

Breathing is not possible whilst submerged in the foam. Take care when spraying people.

10. Stability and reactivity

Stability:	Stabile under normal conditions.
Reactivity:	Avoid contact with: Alkali-metals Concentrated lye Concentrated acid Strong oxidising and reducing agents Acid Halides
Storage:	Do not store over 50°C

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11. Toxicological information

Acute toxicity

Swallowing:	Irritating. LD50 Rat > 2000 mg/kg.
Inhalation	Irritating. Symptoms: Sore throat.
Contact met de huid:	Irritating. Symptoms: red skin
Contact met ogen:	Irritating. Symptoms: red eyes.
Mutageen:	not known.
Carcinogeen:	not known.
Voortplanting:	not known.
STOT:	nor known.

12. Ecological information

12.1 Toxiciteit

Ecotoxicity	LC50 (fish, 96h) > 250 mg/l EC50 (Daphnia magna, 48h) > 750 mg/l EC50 (algae, 72h) > 750 mg/l
Product may lead to foaming in sewage plants. Small quantities (leakage) do not lead to disturbances in sewage plants.	

12.2 Persistence and degradability

Biodegradability	Good. > 99 % in 28 days
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12.3 Bioaccumulation

Bioaccumulation	not known
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12.4 Mobility in soil

Mobility	If product enters soil, it will be mobile and may contaminate groundwater.
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12.5 Results of PBT- and vPvB-assesment:

PBT	not applicable
vPvB	not applicable

12.6 Other adverse effects

not applicable

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13. Disposal considerations

13.1 Waste treatment methods

Disposal of product	Products shall be disposed of according to EC Directives (EC 75/442/EEC en 91/689/EEC).
Disposal of package	Cleaned packages according to municipal rules.
European waste code	not applicable.

14. Transport information.

UN-number	not applicable
UN-shipping name:	not applicable
Transport hazard class:	no dangerous goods according to (ADR/RID, ADN, IMDG, CAO-TI / IATA-DGR)
Packing group:	not applicable.
Environmental hazards:	not applicable.
Special precautions for user:	none.
Transport in bulk according to ANNEX II of MARPOL 73/78 and IBC Code	not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the substances or mixture.

Regulation (EC)1907/2006 (REACH)	applicable.
Regulation (EC) 2037/2000 concerning materials, which may damage the ozone layer.	not applicable
Regulation (EC) 304/2003 concerning the export and import of dangerous chemicals	not applicable.
Directive 96/59/EC (PCB-guideline)	not applicable.
Regulation (EC)684/2004 (Detergents)	comply.
Information according Regulation 1999/13 /EC about limitation of emissions of volatile organic components (VOC-guideline)	Product contains max. 10 weight percent VOC
Regulation (EC)842/2006 concerning "greenhousegases".	not applicable.
Directive 98/24/EEC concerning Safety and health at work	applicable.

15.2 Chemical Safety Assessment

Chemical safety assessment	not applicable
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16. Other information.

Relevant S-, R-, H-, P- and EUH-phrases (Numbers and full text)

R36	Irritating to the eyes
S24/25	Avoid contact with skin and eyes
H302	Harmful if swallowed
H319	Causes serious eye damage
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P338+P351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Information to the reader

The product described in the Safety Data Sheet may only be used for its intended purpose. The details in this safety sheet are based on today's stand of our knowledge and is applicable to the product with regard to appropriate safety precautions. They do not represent any guarantee of the properties of the product and do not establish any legal relationship.

Please refer to our website for more information: www.berki.nl

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to inform you about the safe handling of the product named in this safety data sheet for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on the safety data sheet is not necessary valid for the new made-up material.