

SAFETY DATA SHEET

RADtop 10 konsentrat

Revision date 11.04.2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name RADtop 10 konsentrat
Revision date 11.04.2023
Version number 1.0

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

Uses of the chemical Masonry treatment products. Industrial and professional use.
Uses advised against Not known

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification RADcon Scandinavia AS
Boks 198
1330 Fornebu
Norge
Telefon: +47 2213 4320
www.rad.no

E-mail post@rad.no

Responsible person RADcon Scandinavia AS

Author Sensor Chemcontrol AS - Jens Krotseng

1.4 Emergency telephone number **Poison Information Centre: +47 22 59 13 00.**

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 1272/2008EC The substance or the mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

2.2 Label elements

2.3 Other hazards

The chemical does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.
REACH Annex XIII regulations regarding PBT or vPvB substances is not applicable for the product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Ingredients	Identification	Classification	Note	Weight%
Alcohols, C12-14 ethoxylated	Reach nr: 01-2119968561-30 Ec/Nlp nr: 500-002-6 Cas nr: 9002-92-0	Acute Tox 4; H302 Eye Irrit 2; H319 Aquatic Chronic 3; H412	Æ	< 2,5

Explanation

Eye Irrit 2: Serious eye damage/eye irritation.
Acute Tox 4: Acute toxicity.
Aquatic Chronic 3: Hazardous to the aquatic environment.

Hazard phrases (H-phrases) with full text is found in section 16.

Ingredients comments

The classification applies to each substance, not the product.
All concentrations are listed as weight percent.

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Note Æ: The substance has an occupational exposure limit (OEL) or DNEL (Derived No Effect Level) values, see section 8 for more information.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Fresh air, warmth and rest, preferably in a comfortable, half-sitting position. Keep respiratory tract open.

Skin contact

If skin irritation persists: Get medical advice/attention.

Eye contact

If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes; If possible remove any contact lenses.

Ingestion

Give something to drink, such as water, milk or juice. Do not induce vomiting. Call a poison centre for a risk assessment.

4.2 Most important symptoms and effects, both acute and delayed

Not known

4.3 Indication of any immediate medical attention and special treatment needed

By accident or malaise, consult a doctor immediately. Show label, instructions or the MSDS.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, CO₂ or powder.

Extinguishing media which shall not be used

Avoid using directed water jets during extinguishing work.

5.2 Special hazards arising from the substance or mixture

Not known

5.3 Advice for firefighters

Firefighters should use standard protective flame resistant jacket, helmet with face shield, gloves, rubber boots and self-contained breathing apparatus in confined areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Prevent entry into drains. Avoid release to the environment;.

6.3 Methods and material for containment and cleaning up

Collect small amounts with absorbant material.

6.4 Reference to other sections

See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 12 for information on ecology.
See section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use suitable and approved protective equipment, see section 8 for more information. Handle in accordance with good hygiene and safety practice. Operating instructions should be followed to ensure safe use and best results.

7.2 Conditions for safe storage, including any incompatibilities

Keep in original packaging. Store in a frost-free place.

7.3 Specific end use(s)

Industrial and professional use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Limit values notes

No occupational exposure limits are relevant for the product.

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Derived no effect level (DNEL)		Alcohols, C12-14 ethoxylated			
		Acute local effect	Acute systemic effect	Chronic local effect	Chronic systemic effect
Employee	-inhalation				4.93 mg/m ³
	-skin contact				1.4 mg/kg bw/day
Consumer	-inhalation				870 µg/m ³
	-skin contact				500 µg/kg bw/day
	-oral				500 µg/kg bw/day

Predicted No-Effect Concentration (PNEC)		Alcohols, C12-14 ethoxylated			
Hazard for Aquatic Organisms				Hazard for Air	
	Freshwater	13.9 µg/L		Air	
	Intermittent releases (freshwater)	24.3 µg/L		Hazard for Terrestrial Organism	
	Marine water	1.39 µg/L		Soil	
	Intermittent releases (marine water)	2.43 µg/L		14.1 µg/kg soil dw	
	Sewage treatment plant (STP)	250 µg/L		Hazard for Predators	
	Sediment (freshwater)	111 µg/kg sediment dw		Secondary poisoning	
	Sediment (marine water)	11.1 µg/kg sediment dw			

8.2 Exposure controls

Exposure controls

Common sense and safety precautions should always be used when handling chemicals. Ensure that all containers are properly labeled to prevent accidental exposure or improper use. Ensure good working hygiene. Make use of recommended safety equipment. Provide adequate exhaust ventilation, or ventilation in the workplace. Avoid contact with eyes and skin.

Respiration protection

Respiratory equipment is normally not required, if applied by spraying use:
Full or half mask with dust and particle filter against particles and dust class 1, type P1 with filter color white; according to standard (NS-EN-143), or fresh air positive pressure mask according to standard (NS-EN-137, NS-EN-270). Respiratory protection must be used if air contamination exceeds occupational exposure levels.

Eye protection

Wear goggles when there is a danger of splashing. Eye protection shall be in accordance to EN 166 standard.

Hand protection

Protective gloves made of natural latex, nitrile, neoprene, PVA, butyl or PVC with a glove thickness of more than 0.1 mm according to standard EN-374. For continuous contact: Gloves with a penetration time of more than 480 minutes. For short-term splashes/exposure (up to 10 minutes): Penetration time over 20 minutes;. All specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use. Check and possibly replace worn or damaged gloves. If contact with forearms is likely, wear gauntlet style. CE standards EN420 and EN374 provide general requirements and lists of glove types.

Additional information

It is good industrial hygiene practices to avoid skin contact as much as possible. Do not wear rings, watches, etc, which are suitable for keeping the product and thereby cause skin reactions. Barrier creams may help to protect exposed skin, but can not substitute for gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state	Liquid.
b) Colour	Yellow
c) Odour	Sweetish
d) Melting point/freezing point	Not known
e) Boiling point or initial boiling point and boiling range	ca 100 °C
f) Flammability	The product is not combustible

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g) Lower and upper explosion limit	The product is not flammable or explosive.
h) Flash point	> 100 °C
i) Auto-ignition temperature	Not self-igniting
j) Decomposition temperature	ca 100 °C
k) pH	2.5 - 4.5
l) Kinematic viscosity	< 30 mPas
m) Solubility	Miscible with water
n) Partition coefficient	Not known
o) Vapour pressure	Not known
p) Density and/or relative density	1,1 (vann=1)
q) Relative vapour density	Not known
r) Particle characteristics	Not known
9.2 Other information	The physical and chemical properties specified in section 9.1 applies to the product and not to the individual ingredients or propellant gas, unless otherwise stated.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Not known
10.4 Conditions to avoid	Not known
10.5 Incompatible materials	Not known
10.6 Hazardous decomposition products	No decomposition during normal storage. Under normal conditions of storage and use, hazardous decomposition products are unlikely to form.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
a) Acute toxicity	Based on available data, the classification criteria are not met. The toxicological values shown below apply to the product (substance mixture) and are estimated from the ingredients' ATE (Acute toxicity estimate) values calculated during classification.
LD50 oral (estimated value)	> 20000 mg/kg (Acute Toxicity Estimate)
For ingredient	Alcohols, C12-14 ethoxylated
LD50 oral	LD50 1 000 mg/kg bw (rat) Echa Brief Profile
LD50 dermal	LD50 2 000 mg/kg bw (rat) Echa Brief Profile
b) Skin corrosion/irritation	Based on available data, the classification criteria are not met.
c) Serious eye damage/ irritation	Based on available data, the classification criteria are not met.
d) Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
e) Germ cell mutagenicity	Based on available data, the classification criteria are not met.
f) Carcinogenicity	Based on available data, the classification criteria are not met.
g) Reproductive toxicity	Based on available data, the classification criteria are not met.
h) STOT-single exposure	Based on available data, the classification criteria are not met.
i) STOT-repeated exposure	Based on available data, the classification criteria are not met.
j) Aspiration hazard	Based on available data, the classification criteria are not met.
11.2. Information on other hazards	Probable route of exposure: Skin contact.

SECTION 12: ECOLOGICAL INFORMATION

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12.1 Toxicity	The chemical is not classified as toxic to the environment, but contains environmentally hazardous substances.
For ingredient	Alcohols, C12-14 ethoxylated
LogKow	2.26 (@ 25 °C)
BCF	81.7 L/kg ww
BOD5/COD	> 0.5 (lett biologisk nedbrytbart)
Kd, Koc	43.954
Species: Krepsdyr	LC50 (24 h) 9.45 mg/L Echa Brief Profile
Species: Fisk	LC50 (4 days) 1.5 mg/L LC50 (48 h) 2.7 mg/L LC50 (24 h) 3.5 mg/L Echa Brief Profile
12.2 Persistence and degradability	Not known
12.3 Bioaccumulative potential	Bioaccumulation is unlikely.
12.4 Mobility in soil	Contains substance with low Koc coefficient (soil absorption coefficient): Alcohols, C12-14 ethoxylated; A Koc value of less than 100 indicates that a substance is not readily adsorbed in soil and organic matter and thus has the potential to contaminate groundwater and the environment at a considerable distance from the site of discharge. The product is water soluble and has the potential for high mobility in soil.
12.5 Results of PBT and vPvB assessment	The chemical does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.
12.6 Endocrine disrupting properties	The chemical does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.
12.7 Other adverse effects	Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Disposal group	EWC code assigned by the user based on the application of the product. The EWC code are for illustrative purposes only. Always check the waste codes in view of the current state the product is in. The final waste groups and tags must be determined by the user, based on the actual use of the product.
Packings	EWC: 15 01 10 Packing which contains remnants or is contaminated with dangerous waste. EWC: 15 01 02: plastic packaging. Contaminated packaging to be treated as residual chemicals, follow the warnings of the hazard label even after its packaging is emptied. Residues that can not be stored for later use or recycled, is to be delivered to an authorized destruction facility. Empty containers can, after thorough cleaning, be delivered for reuse. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.
Additional information	The product shall not be allowed to enter drains, waterways, groundwater or the environment. When cleaning contaminated packing, the use of water is recommended.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	n/a
14.3 Transport hazard class(es)	n/a
ADR/RID class	n/a
14.4 Packing group	n/a
14.5 Environmental hazards	n/a
14.6 Special precautions for user	n/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	n/a
Additional information	The product is not subject to international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID).

SECTION 15: REGULATORY INFORMATION

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

Norwegian Regulations: "FOR-2012-06-16-622 Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP)".

COMMISSION DELEGATED REGULATION (EU) 2020/217 of 4 October 2019 (ATP14).

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.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

ADR/RID Regulations on land transport of dangerous goods 2019.

COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

FOR 2004-06-01 nr 922: Norwegian regulations on the restriction of use of hazardous chemicals and other products "produktforskriften".

ECHA (European Chemicals Agency) C&L Inventory database.

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives.

European Waste Catalogue and Hazardous Waste List Valid from 1 January 2002.

FOR-2015-05-19-541 Forskrift om deklarerer av kjemikalier til produktregisteret (norwegian regulation for product declaration).

An assessment of the chemical safety (exposure scenario) exists for one or more of the ingredients in the product.

15.2 Chemical safety assessment

Additional information

Classification of this product is given on the basis of the available information from the vendor.

SECTION 16: OTHER INFORMATION

Relevant hazard- and risk phrases given in section 3

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Key literature references and sources for data

ECHA CL-Inventory / Substance Infocard. Material safety data sheet from the supplier.

Abbreviations in the document

n/a - No relevant information.
EWC - European Waste Catalogue codes.
vPvB - very Persistent and very Bioaccumulative (require special attention under REACH).
PBT - Persistent, Bioaccumulative and Toxic.
LC50 - The concentration of a chemical in air or water as for a particular group of experimental animals which leads to more than 50% deaths over a given period of time.
LD50 - The amount of a chemical given to a particular group of experimental animals that leads to deaths of 50%.
STOT - Toxic effect on certain organs.
bw/day - body weight / day

First released

11.04.2023

Additional information

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--- SAFETY DATA SHEET conforming to commission regulation (EC) 1272/2008 and (EU)
2020/878 ---