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Supersedes : 09/01/2018

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FLEETCOOL DCA-4 LIQUID

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

1.1. Product identifier

Product form : Mixture

Trade name/designation : FLEETCOOL DCA-4 LIQUID

Product code : DCA 65L (1.89L); DCA 75L (20L Pail); DCA 80L (208L Drum); 391412663 (Bulk).

Product group : Trade product Document no. : LT16571 EU

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

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use

Use of the substance/mixture : Additive

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Cummins Filtration
Unit 3 / Valley Drive / Valley Park / Rugby
CV21 1 TN Warwickshire - The United Kingdom
T +44 (0)1788 853600

1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. Not classified

Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 3 H412

Full text of H statements : see section 16



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word : Danger

Hazardous ingredients : Sodium Triazole Solution
Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P264 - Wash hands, forearms and face thoroughly after handling.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor

P501 - Dispose of contents/container to hazardous or special waste collection point,

in accordance with local, regional, national and/or international regulation

Extra phrases : EUH208 - Contains sodium benzothiazol-2-yl sulphide. May produce an allergic

reaction.

2.3. Other hazards

Other hazards : PBT/vPvB data : This mixture contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT). vPvB: This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium phosphate, dibasic anhydrous	(CAS-No.) 7758-11-4 (EC-No.) 231-834-5	5 - 10	Not classified
sodium nitrite	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9 (EC Index) 007-010-00-4	1 - 5	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
dipotassium adipate	(CAS-No.) 19147-16-1 (EC-No.) 242-838-1 (EC Index) -	1 - 5	Eye Irrit. 2, H319
Potassium nitrate	(CAS-No.) 7757-79-1 (EC-No.) 231-818-8	1 - 5	Ox. Sol. 3, H272
Sodium Triazole Solution	(CAS-No.) 64665-57-2 (EC-No.) 265-004-9	1 - 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Sodium molybdate	(CAS-No.) 7631-95-0 (EC-No.) 231-551-7	<= 1	Not classified



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sodium benzothiazol-2-yl sulphide	(CAS-No.) 2492-26-4 (EC-No.) 219-660-8	0,1 - 0,5	Met. Corr. 1, H290 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400
			Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice

: First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult

always a physician.

Inhalation : Keep at rest. Provide fresh air. Artificial respiration and/or oxygen may be necessary.

In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Wash with plenty of water/. Take off immediately all contaminated clothing. Wash

contaminated clothing before reuse. In case of doubt or persistent symptoms,

consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses. In case of doubt or persistent symptoms, consult

always a physician.

Ingestion : Rinse mouth out with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. If symptoms persist, call a

physician.

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

Inhalation : Inhalation of mist causes irritation of respiratory system.

Skin contact : Causes skin irritation. Chronic intensive skin contact may cause dermatitis.

Components of the product may be absorbed into the body through the skin.

Eyes contact : Causes serious eye damage. The following symptoms may occur: erythema

(redness). Pain .

Ingestion : May cause nausea, abdominal spasms and irritation of the mucous membranes. The

absorption of this product into the body may lead to the formation of

methaemoglobine that, in sufficient concentration, causes cyanosis. Kidney injury

may occur.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray.
Unsuitable extinguishing media : Strong water jet .

5.2. Special hazards arising from the substance or mixture

Specific hazards : Non flammable.

Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down

the containers exposed to heat with a water spray.

Hazardous decomposition products in

case of fire

: Nitrogen oxides (NOx). Sulphur oxides. Sodium oxides. Carbon oxides (CO, CO2).

Phosphorus oxides.

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. . Wear a self-contained breathing

apparatus and chemical protective clothing. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water

courses.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel

: Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders

: Ensure procedures and training for emergency decontamination and disposal are in place.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Provide adequate ventilation. Stop leak if safe to do so. Dilute with plenty of water. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with combustibles...

Hygiene measures

: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Separate working clothes from town clothes. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep container tightly closed in a cool, well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Packaging materials : Store in original container.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium nitrite (7632-00-0)		
Lithuania	NRV (mg/m³)	0,1 mg/m³
Potassium nitrate (7757-79-1)		
Bulgaria	OEL TWA (mg/m³)	5 mg/m³
Latvia	OEL TWA (mg/m³)	5 mg/m³



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Potassium nitrate (7757-79-1)		
Lithuania	IPRV (mg/m³)	5 mg/m³

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust

ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to

prevent /limit releases, dispersion and exposure. See also section 7 .

Personal protective equipment : Choose body protection according to the amount and concentration of the

dangerous substance at the work place.

Hand protection : Protective gloves complying with EN 374. The selection of specific gloves for a

specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : tightly fitting safety goggles. Safety glasses. (EN166)

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear

suitable respiratory equipment. Full face mask (EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: A (EN 141). Self-contained breathing apparatus

(EN 133)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Blue.

Odour : Characteristic.
Odour threshold : No data available

pH : 10 - 11

Relative evaporation rate (butylacetate=1) : No data available Melting / freezing point : No data available Freezing point : No data available

Initial boiling point and boiling range : 100 °C

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable,(Liquid)
Vapour pressure : 760 mmHg (@100°C)
Vapour density : No data available
Relative density : 1,13 - 1,15

Solubility : No data available
Partition coefficient n-octanol/water : No data available
Kinematic viscosity : No data available
Dynamic viscosity : No data available
Explosive properties : Not applicable.
Oxidising properties : Not applicable.
Explosive limits : No data available

9.2. Other information

VOC content : No data available



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SECTION 10: Stability and reactivity

10.1. Reactivity

Non flammable. Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7: Handling and storage.

10.5. Incompatible materials

oxidising substances. Reducing agent. Acids. Halogenated compounds. alcohols. Aldehydes . See also section 7: Handling and storage .

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Nitrogen oxides (NOx). Sodium oxides. Sulphur oxides. Phosphorus compounds .

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

LD50/oral/rat	85 mg/kg
LC50/inhalation/4h/rat	5,5 mg/l/4h
sodium benzothiazol-2-yl sulphide	(2492-26-4)
LD50/oral/rat	1476 mg/kg
LD50/dermal/rabbit	> 7940 mg/kg
LC50/inhalation/4h/rat	> 8,2 mg/l (Exposure time: 6 h)
Sodium molybdate (7631-95-0)	
LD50/oral/rat	4000 mg/kg
LC50/inhalation/4h/rat	> 2080 mg/m³ (Exposure time: 4 h)
Potassium nitrate (7757-79-1)	
LD50/oral/rat	3015 mg/kg
Sodium Triazole Solution (64665-5	7-2)
LD50/oral/rat	920 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
	pH: 10 - 11
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 10 - 11
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
spiration hazard	: Not classified (Based on available data, the classification criteria are not met.)



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Other information

: Symptoms related to the physical, chemical and toxicological characteristics.

Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties

: Harmful to aquatic life with long lasting effects. Should not be released into the

environment.

sodium nitrite (7632-00-0)		
LC50 fish 1	0,19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
EC50 Daphnia 1	87 mg/l	
LC50 fish 2	0,092 - 0,13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
sodium benzothiazol-2-yl sulphide (2492-26-4)		
LC50 fish 1	0,3 - 1,1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 1	1,9 - 5,1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 fish 2	3,8 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
Potassium nitrate (7757-79-1		
LC50 fish 1	1378 mg/l (Poecilia reticulata)	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water	No data available	
sodium nitrite (7632-00-0)		
Partition coefficient n-octanol/water	-3,7 (at 25 °C)	
sodium benzothiazol-2-yl sulphide (2492-26-4)		
Partition coefficient n-octanol/water	-0,46	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated

materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. In accordance with local and

national regulations.

European waste catalogue (2001/573/EC,

75/442/EEC, 91/689/EEC)

: Classified as hazardous waste according to European Union regulations.

The following Waste Codes are only suggestions:

07 02 04* - other organic solvents, washing liquids and mother liquors / 150110 - packaging containing residues of or contaminated by dangerous

substances.

Waste codes should be assigned by the user, preferably in discussion with the waste

disposal authorities.



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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number	•	•	•	•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name	•	•	•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

the female in green are approache according to fundament in the first tegrisation (20)	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	FLEETCOOL DCA-4 LIQUID
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	FLEETCOOL DCA-4 LIQUID - sodium benzothiazol-2-yl sulphide
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	FLEETCOOL DCA-4 LIQUID - sodium benzothiazol-2-yl sulphide

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances



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VOC content : No data available

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, significant hazard to waters (Classification according

to AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances

Netherlands

Waterbezwaarlijkheid : 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Saneringsinspanningen : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken

SZW-lijst van kankerverwekkende stoffen : Sodium Triazole Solution is listed SZW-lijst van mutagene stoffen : Sodium Triazole Solution is listed NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Norway

This safety datasheet has been prepared according to Norwegian legislation.

: Produktforskriften (FOR 2004-06-01): Paragraph 2-30

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes: SECTION: 1,2,14,16. Abbreviations and acronyms:

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	CSR = CSR = Chemical Safety Report
	EC50 = Median Effective Concentration
	LD50 = Median lethal dose
·	LC50 = Median lethal concentration
	N.O.S. = Not Otherwise Specified



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DNEL = DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
NA = Not applicable
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet

- : ECHA (European Chemicals Agency). European Chemicals Bureau SDS Supplier
- datasheet No LT16571 EU reviewed 26/03/2012.

 Training advice : Manipulations are to be done only by q

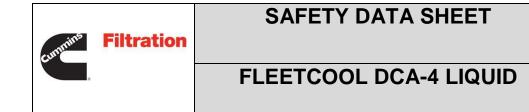
: Manipulations are to be done only by qualified and authorised persons. Normal use of this product shall imply use in accordance with the instructions on the packaging. Training staff on good practice.

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity Category 3
Acute Tox. 4 (Oral)	Acute toxicity Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - chronic hazard category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic hazard category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Met. Corr. Not classified	Corrosive to metals Not classified
Ox. Sol. 3	Oxidizing solid Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, hazard category 1
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains sodium benzothiazol-2-yl sulphide. May produce an allergic reaction.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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