

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CORAGARD® CS 330

Print date: 20.06.2015

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Corrosion inhibitor

1.3. Details of the supplier of the safety data sheet

Company name:	Aqua-Concept GmbH		
Street:	Am Kirchenhölzl 13		
Place:	D-82166 Gräfelfing		
Telephone:	+49 (0)89 89 93 69-0	Telefax:	+49 (0)89 89 93 69-10
e-mail:	info@aqua-concept-gmbh.eu		
Contact person:	Hr. Porada	Telephone:	-180
e-mail:	t.porada@aqua-concept-gmbh.eu		
Internet:	http://www.aqua-concept-gmbh.eu		
Responsible Department:	Labor		
	e-mail: info@aqua-concept-gmbh.eu		
	Tel.: 089-899369-0		

1.4. Emergency telephone number:firmeneigen
Mo-Fr 08:00 - 16:30**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Move victim out of danger zone.

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Call a doctor.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Immediately call a doctor.

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

The following symptoms may occur:

Causes eye irritation.

Irritation to respiratory tract

Coughing.

Ingestion:

Gastrointestinal complaints.

Nausea.

Vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray. alcohol resistant foam. Carbon dioxide (CO₂). Dry extinguishing powder.**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Pyrolysis products, toxic.**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal. Dilute with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Avoid: Generation/formation of aerosols. Avoid contact with skin, eyes

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and clothes. Observe instructions for use. Read label before use.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container. (at room temperature)

Advice on storage compatibility

Do not store together with: Food and feedingstuffs

Further information on storage conditions

Suitable container/equipment material:

Refined steel

PE (polyethylene)-HD

Unsuitable container/equipment material:

Zinc

7.3. Specific end use(s)

Anti-freezing agent

Corrosion inhibitor and anti-scaling agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route		Effect	Value
57-55-6	1,2-Propanediol			
Consumer DNEL, long-term	inhalation		local	10 mg/m ³
Consumer DNEL, long-term	oral		systemic	85 mg/kg bw/day
Consumer DNEL, long-term	inhalation		systemic	50 mg/m ³
Consumer DNEL, long-term	dermal		systemic	213 mg/kg bw/day
Worker DNEL, long-term	inhalation		local	10 mg/m ³
Worker DNEL, long-term	inhalation		systemic	168 mg/m ³

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PNEC values

CAS No	Substance	
Environmental compartment		Value
57-55-6	1,2-Propanediol	
Soil		50 mg/kg
Marine sediment		57,2 mg/kg
Freshwater sediment		572 mg/kg
Micro-organisms in sewage treatment plants (STP)		20000 mg/l
Marine water		26 mg/l
Freshwater		260 mg/l

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures

Take off contaminated clothing. Use protective skin cream before handling the product. Wash hands before breaks and after work. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

Tightly sealed safety glasses. (DIN EN 166)

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

Suitable material: NBR (Nitrile rubber). (DIN EN 374)

Thickness of glove material: $\geq 0,11$ mm

penetration time (maximum wearing period): > 480 min

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Generation/formation of aerosols:

Combination filtering device (EN 14387), Filtering device (full mask or mouthpiece) with filter: A2 P2;

Colour: brown, white

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: colourless, light yellow
 Odour: characteristic

Test method

pH-Value: 7,7 - 8,3 DIN 38404 C5

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: 101 °C EEC A.2
 Pour point: -33 °C
 Solidification point: not determined
 Flash point: > 100 °C

Flammability

Solid: not applicable
 Gas: not applicable

Explosive properties

not determined

Lower explosion limits: not determined
 Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: 22 hPa EN 13016
 (at 20 °C)

Density (at 20 °C): 1,034 g/cm³

Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / kinematic: 4,3 mm²/s ISO 3104
 (at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

Solvent content: 0 %

9.2. Other information

Conductivity: 14 - 25 µS/cm
 Chemical oxygen demand (COD): 660 mg/g
 Freezing point: -3,3 °C (ISO 3016)

SECTION 10: Stability and reactivity

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10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Reference to other sections:

SECTION 7: Handling and storage

10.5. Incompatible materials

Keep away from: Oxidizing agents, strong. Strong acid. Reducing agent.

Reference to other sections:

SECTION 7: Handling and storage

10.6. Hazardous decomposition products

Reference to other sections:

SECTION 5: Firefighting measures

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Additional information on tests**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).

Chemical oxygen demand (COD): 660 mg/g (DIN 38409-H41)

none AOX

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

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190999 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE; wastes from the preparation of water intended for human consumption or water for industrial use; wastes not otherwise specified

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): 40 %

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

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

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SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice 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 this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)