

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

Gardofloc Q 5960

Version: 1.7

Revision Date 02.06.2012

Print Date 01.11.2012

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

1.1 Product identifier

Trade name : Gardofloc Q 5960

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

Use of the Sub-
stance/Mixture : Flocculating agent

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH
Rostocker Str. 40
41199 Mönchengladbach

Contact person : Wolfgang Schaffers
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit
E-mail address : info-produktsicherheit@gmx.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:
+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling according to EC Directives (67/548/EEC)

Further information : The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

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SECTION 3: Composition/information on ingredients**3.1 Substances**

not applicable

3.2 Mixtures

Chemical nature : Preparation of mineral oil and additives

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	934-954-2 01-2119826592-36	Xn; R65 Nota H, Nota N	Asp. Tox. 1; H304	>= 25 - < 50
C12 - 15 Alcohol ethoxylate	68131-39-5	Xn; R22 Xi; R41 N; R50	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 3 - < 5
Alcohols, C12-18, ethoxylated	68213-23-0	Xi; R41 N; R50	Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 1 - < 2.5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice : No special precautions required.

In case of skin contact : After contact with skin, wash immediately with plenty of water.

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In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.
If eye irritation persists, consult a specialist.

If swallowed : Call a physician immediately.
Keep patient warm and at rest.
Immediately give large quantities of water to drink.
Prevent vomiting if possible.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

5.3 Advice for firefighters

Special protective equipment for firefighters : No special precautions required.
Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic envi-

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ronment or soil.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : 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).
Keep in suitable, closed containers for disposal.
Contaminated surfaces will be extremely slippery.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No special storage conditions required.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Protect from frost.
Keep at temperatures between 5°C and 40°C.

Advice on common storage : No materials to be especially mentioned.

7.3 Specific end uses

Specific use(s) : Flocculating agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Eye protection : not required

Skin and body protection : not required

Protective measures : Follow the skin protection plan.

Environmental exposure controls

General advice : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : white

Odour : characteristic

Flash point : > 100 °C

pH : 8
at 20 g/l
20 °C

Boiling point/boiling range : 96 °C
Method: DIN 51751

Density : 1.03 g/cm³
at 20 °C
Method: DIN 51757

Water solubility : 1,000 g/l
completely soluble

Viscosity, dynamic : 1,200 - 2,000 mPa*s
at 20 °C

9.2 Other information

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Explosivity : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Risk of decomposition. : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LD50: > 5,000 mg/kg
Species: rat
Method: OECD Test Guideline 401

C12 - 15 Alcohol ethoxylate : LD50: > 2,000 mg/kg
Species: rat

Acute inhalation toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 5.27 mg/l
Exposure time: 4 h
Species: rat
Method: OECD Test Guideline 403

C12 - 15 Alcohol ethoxylate : LC50/inhalation/4h/rat.: > 5 mg/l

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Acute dermal toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LD50: > 3,160 mg/kg
Species: rabbit
Method: OECD Test Guideline 402

C12 - 15 Alcohol ethoxylate : LD50: > 2,000 mg/kg
Species: rat

Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

Respiratory or skin sensitization

Sensitisation : This information is not available.

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Further information : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to fish
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 1,028 mg/l
Exposure time: 96 h
Species: Fish
Method: OECD Test Guideline 203

C12 - 15 Alcohol ethoxylate : LC50: 1 - 10 mg/l

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Toxicity to daphnia and other aquatic invertebrates

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 3,193 mg/l
Exposure time: 48 h

C12 - 15 Alcohol ethoxylate : EC50: < 1 mg/l
Species: Daphnia

Toxicity to algae

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : ErC50: > 10,000 mg/l
Exposure time: 72 h
Species: Skeletonema costatum

C12 - 15 Alcohol ethoxylate : EC50: < 1 mg/l

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not let product enter drains.
Do not dispose of with domestic refuse.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Packaging : Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 070499 / 070699 wastes not otherwise specified

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SECTION 14: Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15: Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R65	Harmful: may cause lung damage if swallowed.

Full text of H-Statements referred to under sections 2 and 3.

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H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Full text of Notas referred to under section 3

Nota H	The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.
Nota N	The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.