

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 1 / 16

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

1.1 Product identifier

GQ 357E Venezian Stone Sealer

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

No information available.

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Supplier : GranQuartz
Street : 4963 South Royal Atlanta Drive
Postal code/city : USA- Tucker, GA 30084
Telephone : +1 770 621-9777
Telefax : +1 770 621-9771
Contact : Technical Department
E-mail: admin@granquartz.com

Emergency telephone number:
+1 770 621-9777
(Only available during office hours)

1.4 Emergency telephone number

see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Harmful by inhalation and in contact with skin. · Irritating to respiratory system.

R 10 · N ; R 51/53 · Xn ; R 20/21 · Xi ; R 37 · R 66

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

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Category 2 ; Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H335 - Specific target organ toxicity (single exposure) : Category 3 ; May cause respiratory irritation.

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

Additional information

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Remark

Full text of R-, H- and EUH-phrases: see section 16.

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



Xn ; Harmful



N ; Dangerous for the environment

Hazard components for labelling

XYLENE ; CAS No. : 1330-20-7

R-phrases

10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20/21	Harmful by inhalation and in contact with skin.
37	Irritating to respiratory system.

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 2 / 16

66	Repeated exposure may cause skin dryness or cracking.
S-phrases	
29/35	Do not empty into drains; dispose of this material and its container in a safe way.
61	Avoid release to the environment. Refer to special instructions/safety data sheet.
51	Use only in well-ventilated areas.
36/37	Wear suitable protective clothing and gloves.
Special provisions concerning the labelling of certain mixtures	
99	Contains MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; ISOBUTYL METHACRYLATE.May produce an allergic reaction.

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

Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P310	Immediately call a POISON CENTER/doctor/...
P405	Store locked up.
P501	Dispose of contents/container to

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
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Special rules for supplemental label elements for certain mixtures

EUH208	Contains MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; ISOBUTYL METHACRYLATE.May produce an allergic reaction.
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2.3 Other hazards

Adverse physicochemical effects

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

2.4 Additional information

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

Description

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 3 / 16

Sealer

Hazardous ingredients

Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; REACH registration No. : 01-2119455851-35-xxxx ; EC No. : 918-668-5; CAS No. : (64742-95-6)

Weight fraction : 60 - 65 %
Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 Xi ; R37 R67 R66
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

XYLENE ; REACH registration No. : 01-2119486136-34-xxxx ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : 15 - 20 %
Classification 67/548/EEC : R10 Xn ; R20/21 Xi ; R38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

ETHYLBENZENE ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction : 5 - 10 %
Classification 67/548/EEC : F ; R11 Xn ; R20
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 4 ; H332

MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Weight fraction : 0,25 - 0,5 %
Classification 67/548/EEC : N ; R50/53 R43
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; REACH registration No. : 01-0000015075-76-xxxx ; EC No. : 400-830-7

Weight fraction : 0,1 - 0,5 %
Classification 67/548/EEC : N ; R51/53 R43
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

ISOBUTYL METHACRYLATE ; REACH registration No. : 01-2119488331-38-xxxx ; EC No. : 202-613-0; CAS No. : 97-86-9

Weight fraction : 0,1 - 0,5 %
Classification 67/548/EEC : R10 N ; R50 R43 Xi ; R36/37/38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Acute 1 ; H400

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Observe risk of aspiration if vomiting occurs.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

After ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

No information available.

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 4 / 16

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water alcohol resistant foam ABC-powder Carbon dioxide (CO₂) Water spray

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Suitable material for taking up: Universal binder

6.4 Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (see chapter 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of ignition. - No smoking. The product is: Combustible

Fire class : B

Shake before use nein

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.

Hints on joint storage

Storage class (TRGS 510) : 3

Protect from frost nein

Recommended storage temperature 5 - 25 °C

Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 5 / 16

7.3 Specific end use(s)

Recommendation

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 01.09.2012

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 1,5 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Version : 31.03.2004

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Remark : H
Version : 08.06.2000

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m³
Peak limitation : 2(II)
Remark : H, Y
Version : 01.09.2012

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Ethylbenzene / Whole blood (B) / End of exposure or end of shift
Limit value : 1 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift
Limit value : 800 mg/g Kr
Version : 31.03.2004

Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 1,25 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 6 / 16

HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,085 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 32 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 11 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 0,25 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 0,58 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 108 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 174 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 14,8 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 14,8 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Oral
Exposure frequency : Short-term (acute)
Limit value : 1,25 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 0,025 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 11 mg/kg

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 7 / 16

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 1,25 mg/kg

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 1,6 mg/kg

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 108 mg/kg

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 1,6 mg/kg

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 0,58 mg/m³

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 1,25 mg/kg

Limit value type : DNEL/DMEL (Worker, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 2,35 mg/m³

Limit value type : DNEL/DMEL (Worker, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 289 mg/m³

Limit value type : DNEL/DMEL (Worker, Systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 289 mg/m³

Limit value type : DNEL/DMEL (Worker, Systemic) (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 25 mg/kg

Limit value type : DNEL/DMEL (Worker, Systemic) (A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE))

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 0,35 mg/m³

Limit value type : DNEL/DMEL (Worker, Systemic) (A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE))

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 0,5 mg/kg

Limit value type : DNEL/DMEL (Worker, Systemic) (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Inhalation

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 8 / 16

Exposure frequency : Long-term (repeated)
Limit value : 150 mg/m³
Limit value type : DNEL/DMEL (Worker, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Worker, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m³
Limit value type : DNEL/DMEL (Worker, Systemic) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 2,5 mg/kg
Limit value type : DNEL/DMEL (Worker, Systemic) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Worker, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,327 mg/l
Limit value type : PNEC aquatic, freshwater (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))
Limit value : 0,023 mg/l
Limit value type : PNEC aquatic, freshwater (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value : 0,0022 mg/l
Limit value type : PNEC aquatic, intermittent release (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value : 0,009 mg/l
Limit value type : PNEC aquatic, intermittent release (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))
Limit value : 0,028 mg/l
Limit value type : PNEC aquatic, intermittent release (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,327 mg/l
Limit value type : PNEC aquatic, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,327 mg/l
Limit value type : PNEC aquatic, marine water (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))
Limit value : 0,00023 mg/l
Limit value type : PNEC aquatic, marine water (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value : 0,00022 mg/l
Limit value type : PNEC sediment, freshwater (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value : 1,05 mg/l
Limit value type : PNEC sediment, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value : 12,46 mg/kg
Limit value type : PNEC sediment, freshwater (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 9 / 16

	HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE)
Limit value :	3,06 mg/kg
Limit value type :	PNEC sediment, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value :	12,46 mg/kg
Limit value type :	PNEC sediment, marine water (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value :	0,11 mg/l
Limit value type :	PNEC sediment, marine water (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE)
Limit value :	0,306 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE)
Limit value :	10 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (XYLENE ; CAS No. : 1330-20-7)
Limit value :	6,58 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Limit value :	1 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection goggles

Required properties

DIN EN 166

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : Data apply to the main component. FKM (fluoro rubber), 0,7mm, >8h;

Recommended glove articles : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures : Check leak tightness/impermeability prior to use.

Remark : Breakthrough times and swelling properties of the material must be taken into consideration. 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.

Body protection

Protective clothing.

Suitable protective clothing : Chemical protection clothing Chemical resistant safety shoes

Required properties : antistatic.

Recommended protective clothing articles : DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

Remark : Barrier creams are not substitutes for body protection.

Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 10 / 16

clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : viscous

Colour : colourless

Odour : solvent

Safety relevant basis data

Freezing point :	(1013 hPa)	<	-13	°C	
Boiling temperature/boiling range :	(1013 hPa)	ca.	145	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :		ca.	37	°C	closed cup
Ignition temperature :			not determined		
Sustaining combustion			Yes		UN Test L2:Sustained combustibility test
Lower explosion limit :			not determined		
Upper explosion limit :			not determined		
Vapour pressure :	(50 °C)	<	3000	hPa	
Density :	(20 °C)	ca.	0,9	g/cm ³	Pyknometer
Solvent separation test :	(20 °C)	<	3	%	
Water solubility	(20 °C)		immiscible		
pH value :			not applicable		
log P O/W :			not determined		
Flow time :	(23 °C)	ca.	32	s	ISO cup 4 mm
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC-FR			A+		

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	8700 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	3500 mg/kg

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 11 / 16

Parameter : LD50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg
Method : OECD 401

Parameter : LD50 (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Exposure route : Oral
Species : Rat
Effective dose : 3230 mg/kg

Parameter : LD50 (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Oral
Species : Rat
Effective dose : > 2000 - 5000 mg/kg

Acute dermal toxicity

Parameter : LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Dermal
Species : Rabbit
Effective dose : 15354 mg/kg

Parameter : LD50 (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))

Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Parameter : LD50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402

Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation
Species : Rat
Effective dose : 6350 mg/l

Parameter : LC50 (ETHYLBENZENE ; CAS No. : 100-41-4)

Exposure route : Inhalation
Species : Mouse
Effective dose : 35,5 mg/l

Parameter : LD50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Exposure route : Inhalation
Species : Rat
Effective dose : > 5800 mg/m³
Exposure time : 4 h
Method : OECD 403

Specific symptoms in animal studies

No data available

Irritant and corrosive effects

Assessment/classification

Repeated exposure may cause skin dryness or cracking.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 12 / 16

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

In vivo mutagenicity

Other information

No experimental indications of in vivo mutagenicity exist.

Human toxicological data

Other information

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

Practical experience/human evidence

No indications of human reproductive toxicity exist.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Fish
Effective dose : 7,6 mg/l
Exposure time : 96 h
Parameter : LC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Species : Fish
Effective dose : 94,44 mg/l
Exposure time : 96 h
Parameter : LC50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE))
Species : Fish
Effective dose : 2,8 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Species : Fish
Effective dose : 0,97 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))
Species : Fish
Effective dose : > 1 - 10 mg/l

Chronic (long-term) fish toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Fish
Effective dose : > 1 - 10 mg/l

Acute (short-term) daphnia toxicity

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia
Effective dose : 3,82 mg/l
Exposure time : 48 h
Parameter : EC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Species : Daphnia
Effective dose : 2,1 mg/l
Exposure time : 48 h
Parameter : EC50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 13 / 16

Species : HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE)
Daphnia
Effective dose : 4 mg/l
Exposure time : 48 h
Parameter : EC50 (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Species : Daphnia
Effective dose : 20 mg/l
Exposure time : 24 h
Method : OECD 202
Parameter : EC50 (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))
Species : Daphnia
Effective dose : > 1 - 10 mg/l

Chronic (long-term) daphnia toxicity

Parameter : NOEC (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))
Species : Daphnia
Effective dose : 0,78 mg/l
Exposure time : 21 Tage
Method : OECD 202

Acute (short-term) algae toxicity

Parameter : IC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Algae
Effective dose : 4,7 mg/l
Exposure time : 72 h
Parameter : IC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Species : Algae
Effective dose : 4,6 mg/l
Exposure time : 72 h
Parameter : IC50 (A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
Species : Algae
Effective dose : 1,68 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6))
Species : Algae
Effective dose : > 1 - 10 mg/l

Effects in sewage plants

Observe local regulations concerning effluent treatment.

12.2 Persistence and degradability

No data available

Biodegradation

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 14 / 16

No data available

12.7 Further ecological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 07 01 04*

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE · XYLENE)

Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE · XYLENE)

Air transport (ICAO-TI / IATA-DGR)

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE · XYLENE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : 640E · LQ 5 I · E 1
Hazard label(s) : 3 / N

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : GQ 357E Venezian Stone Sealer

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 15 / 16

SECTION 15: Regulatory information

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

National regulations

Observe in addition any national regulations!

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

VOCV-Regulation (CH)

Maximum VOC content (Switzerland) : 81 Wt % according to VOCV

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

16.5 Training advice

None

16.6 Additional information

None

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.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : **GQ 357E Venezian Stone Sealer**

Revision date : 20.02.2015
Print date : 26.02.2015

Version : 0.0.1
Page : 16 / 16
