



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

1.1 Product Information

Trade name: ULTRA+ Refresh & Revitalise
Identification number: 61335 V2

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

Use of the Substance/Mixture: Cleaning agent

1.3 Company details

Name: Vax Ltd
Address: Kingswood Road
Hampton Lovett
Droitwich
Worcestershire
WR9 0QH
ENGLAND

1.4 Telephone number

(UK) 01905 388 290

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

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

Special labelling of certain mixtures :

Safety data sheet available on request for professional users.

Special labelling of certain mixtures :

Safety data sheet available on request for professional users.

2.2 Other Hazards

No information available



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Version 1

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Original Revision date: 25.09.2013

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature: Aqueous surfactant solution

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008)	Concentration [%]
Sulfuric acid, mono-C12-16-alkyl esters, sodium	73296-89-6 277-362-3 01- 2119489464-26	Xi; R38 Xi; R41	Skin Irrit. 2; H315 Eye Irrit. 2; H318 Aquatic Chronic 3; H412	>= 1 - < 2
hydrogen peroxide	7722-84-1 231-765-0 01- 2119485845-22	O; R 8 R 5 C; R35 Xn; R20/22	Ox. Liq. 1; H271 Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1A; H314 STOT SE 3; H335	>= 1 - < 2
etidronic acid	2809-21-4 220-552-8 01- 2119510391-53	R41	Met. Corr. 1; H290 Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 2

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.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: No hazards which require special first aid measures.



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Version 1

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- If inhaled: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
- In case of eye contact: Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
- If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

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: For specialist advice physicians should contact the Poisons Information Service

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:

5.3 Advice for firefighters

- Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions: Use personal protective equipment.



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6.2 Environmental precautions

Environmental precautions: Try to prevent the material from entering drains or water courses.

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8. Treat recovered material as described in the section "Disposal considerations". Refer to section 15 for specific national regulation.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: For personal protection see section 8. No special handling advice required.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures: General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Advice on common storage: No special restrictions on storage with other products.

Other data: No decomposition if stored and applied as directed. Protect from frost.

7.2 Specific end use(s)

Specific use(s): Cleaning agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



VAX ULTRA+ REFRESH & REVITALISE

Version 1

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8.1 Control parameters

Component s	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
HYDROGEN PEROXIDE	TWA	1 ppm 1,4 mg/m3		2005-04-06	GB EH40
HYDROGEN PEROXIDE	STEL	2 ppm 2,8 mg/m3		2005-04-06	GB EH40

DNEL hydrogen
peroxide

End Use: Workers
Exposure routes:
Inhalation
Potential health effects:
Acute effects
Value: 3 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects
Value: 1,4 mg/m3

Sulfuric acid, mono-C12-
16-alkyl esters, sodium
salts

End Use: Workers
Exposure routes: Skin
contact
Potential health effects:
Long-term exposure,
Systemic effects

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 285 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 85 mg/m3

5 / 12 End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term exposure, Systemic effects

PNEC : Marine water
hydrogen Value: 0,0126
peroxide mg/l

Fresh water
Value: 0,0126 mg/l
Fresh water sediment
Value: 0,0103 mg/kg

Soil
Value: 0,0023 mg/kg
Sulfuric acid, : Fresh water



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

mono-C12-16-alkyl esters, sodium salts
Value: 0,0958 mg/l
Marine water
Value: 0,0096 mg/l
Fresh water sediment
Value: 3,37 mg/kg
Marine sediment
Value: 0,337 mg/kg
Soil
Value: 0,616 mg/kg
STP
Value: 1084 mg/l
intermittent release
Value: 0,036 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection: Safety glasses

Hand protection

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

Glove thickness: 0,4 mm

Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection: Protective suit

Respiratory protection: No personal respiratory protective equipment normally required.

Environmental exposure controls

General advice: Try to prevent the material from entering drains or water courses. No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Colour: colourless
Odour: No data available
Odour Threshold: no data available
pH: 5



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

Melting point/range:	no data available
Boiling point/boiling range:	No information available.
Flash point:	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Burning rate:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Vapour pressure:	no data available
Relative vapor density:	no data available
Relative density:	no data available
Density:	1 g/cm ³
Water solubility:	soluble
Solubility in other solvents:	no data available
Partition coefficient: n-octanol/water:	no data available
Ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Viscosity, kinematic:	no data available
Explosive properties:	no data available
Oxidizing properties:	no data available

9.2 Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions. No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid: no data available

10.5 Incompatible materials

Materials to avoid: no data available

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

Other information:

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Skin corrosion/irritation: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitization: no data available

Further information: no data available

Components:

HYDROGEN PEROXIDE :

Acute oral
toxicity

LD50 rat: 1.193
- 1.270 mg/kg

8 / 12 Acute dermal toxicity :
Acute toxicity (other routes
of administration) :

Skin corrosion/irritation :

Serious eye damage/eye
irritation :

Respiratory or skin
sensitization :

LD50 rabbit: > 2.000 mg/kg
mouse: 100 mg/kg

Species: rabbit
Result: Skin irritation
Result: Eye irritation

Result: Did not cause
sensitization on laboratory
animals.

Repeated dose toxicity
mouse: NOAEL: 100 mg/kg
Application Route: Oral

Exposure time: 90 d
rat: NOAEL: 2 mg/kg
Application Route: inhalation (vapour)
Exposure time: 28 d



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

ETIDRONIC ACID :

Acute oral toxicity

Acute dermal toxicity

LD50 Oral rat: 1.878
mg/kg

LD50 Dermal rabbit: >
6.000 mg/kg

SODIUM LAURYL

SULFATE : Acute oral
toxicity

LD50 Oral : > 2.000 mg/kg
Method: OECD Test
Guideline 401

Skin corrosion/irritation

Result: irritating
Method: OECD Test
Guideline 404

Serious eye damage/eye
irritation

Result: Risk of serious
damage to eyes.
Method: OECD Test
Guideline 405

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Components:

HYDROGEN PEROXIDE

Toxicity to fish

LC50 (Pimephales
promelas (fathead
minnow)): 16,4 mg/l

Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): 35 mg/l

Exposure time: 24 h

Toxicity to daphnia
and other aquatic
invertebrates

EC50 (Daphnia
magna (Water
flea)): 2,4 mg/l
Exposure time: 48 h
Test Method: semi-
static test

Toxicity to algae

(Skeletonema
costatum): 1,38 mg/l
Exposure time: 72 h
Test Method:
Growth inhibition

(Chlorella vulgaris (Fresh water algae)): 4,3 mg/l

Exposure time: 72 h

Test Method: Growth inhibition

Toxicity to
bacteria

(Bacteria): 11
mg/l



VAX ULTRA+ REFRESH & REVITALISE

Version 1

Issued: 26.09.2013

Original Revision date: 25.09.2013

Exposure
time: 16 h

ETIDRONIC ACID : Toxicity to fish

LC50 (Oncorhynchus mykiss
(rainbow trout)): 195 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 368 mg/l

Exposure time: 96 h

LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.180 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 868 mg/l

Exposure time: 96 h

Toxicity to daphnia : (Daphnia magna
and other aquatic (Water flea)): 527
invertebrates mg/l
Exposure time: 48
h

Toxicity to algae : EC50 : 7,2 mg/l
Exposure time: 96
h

Toxicity to fish : NOEC: 180 mg/l
(Chronic toxicity) Exposure time: 14
d
Species:
Oncorhynchus
mykiss (rainbow
trout)

Toxicity to daphnia : NOEC: 6,75 mg/l
and other aquatic Exposure time: 28
invertebrates d
(Chronic toxicity) Species: Daphnia
magna (Water
flea)

SODIUM LAURYL

SULFATE : Toxicity to fish

LC50 (Leuciscus idus
(Golden orfe)): > 10 -
100 mg/l
Method: OECD Test
Guideline 203

Toxicity to daphnia : EC50 (Daphnia
and other aquatic magna (Water flea)):
invertebrates 10 - 100 mg/l
Toxicity to algae : EC50 (Scenedesmus



VAX ULTRA+ REFRESH & REVITALISE

Version 1

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Original Revision date: 25.09.2013

Toxicity to bacteria	:	subspicatus): 10 - 100 mg/l
Toxicity to fish (Chronic toxicity)	:	EC0 (<i>Pseudomonas putida</i>): > 100 mg/l NOEC: 1 - 10 mg/l Species: <i>Pimephales promelas</i> (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1 - 10 mg/l Species: <i>Daphnia magna</i> (Water flea)

12.2 Persistence and degradability



VAX ULTRA+ REFRESH & REVITALISE

Version 1

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HYDROGEN PEROXIDE

Biodegradability

aerobic

activated

sludge

Result: rapidly

biodegradable

Exposure time:

< 2 min

aerobic

see user defined free text

Result: rapidly biodegradable

Exposure time: 0,3 - 5 d

anaerobic

see user defined free text

not applicable

ETIDRONIC	:	Biodegradatio
ACID :		n: 33 %
Biodegradabil		Exposure
ity		time: 28 d

12.3 Bioaccumulative potential

Components:

HYDROGEN	Does not
PEROXIDE :	bioaccumulate.
Bioaccumulation	

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Product:

Additional ecological information: There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.



VAX ULTRA+ REFRESH & REVITALISE

Version 1

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Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

14.1 UN number

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.2 Proper shipping name

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.3 Transport hazard class

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.4 Packing group

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.5 Environmental hazards

ADR
Not dangerous goods
IMDG
Not dangerous
IATA

Not dangerous goods



VAX ULTRA+ REFRESH & REVITALISE

Version 1

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14.6 Special precautions for user

For personal protection see section 8.

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

no data

15. REGULATORY INFORMATION

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



VAX Ultra+ Refresh & Revitalise

Version 1

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Major Accident	:	Update: 2003
Hazard		Directive 96/82/EC
Legislation 96/82/E		does not apply
C		
Volatile organic	:	not applicable
compounds (VOC)		
content		

15.2 Chemical Safety Assessment

16. OTHER INFORMATION

Full test of R-Phrases

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Ox. Liq.	Oxidizing liquids
R 5	Heating may cause an explosion.

Full text of H-Statements

H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

SAFETY DATA SHEET
According to EC directive 2001/58/EC



VAX Ultra+ Refresh & Revitalise

Version 1

Issued: 17.09.2013

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H412

Harmful to aquatic life with
long lasting effects.

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