



VAX FLOOR TO FLOOR SANITISE

Version 1

Issued: 23.10.13

Original Revision date: 09.11.2012

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

1.1 Product Information

Trade name: FLOOR TO FLOOR SANITISE
Identification number: 61568

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)

Corrosive R34: Causes burns.

Dangerous for the environment R50: Very toxic to aquatic organisms.

2.2 Label elements



Corrosive



Dangerous
for the
environment

R-phrase(s) : R34 Causes burns.
R50 Very toxic to aquatic organisms.



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S-phrase(s) : S 1/2 Keep locked up and out of the reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:
98246-84-5 Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs.
7173-51-5 didecyldimethylammonium chloride

2.2 Other Hazards

No information available

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 [%]
Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs.	98246-84-5 308-757-1	C; R34 Xn; R22 N; R50	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	>= 5 - < 10
didecyldimethylammonium chloride	7173-51-5 230-525-2	C; R34 Xn; R22 N; R50	Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400	>= 5 - < 10
Alcohols, C9 – C11 – iso-, C10 –rich, ethoxylated	02- 2119549526- 31	Xn; R22 Xi; R41	Eye Dam. 1; H318 Acute Tox. 4; H302	>= 2 - < 5
propan-2-ol	67-63-0 200-661-7 01- 2119457558- 25	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 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.



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4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air. Consult a physician after significant exposure.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital.

If swallowed: Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting. Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Corrosive effects.
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.



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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. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities

6.3 Methods and materials for containment and 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. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

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

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

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

7.2 Specific end use(s)

Specific use(s) : Disinfectants
Restricted to professional users.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

propan-2-ol

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Exposure time: 1 d

Value: 888 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 500 mg/m³

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Exposure time: 1 d

Value: 319 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term exposure, Systemic effects

Exposure time: 1 d

Value: 26 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 89 mg/m³

PNEC

propan-2-ol

Fresh water

Value: 140,9 mg/l

Marine water

Value: 140,9 mg/l

Fresh water sediment

Value: 552 mg/kg

Marine sediment

Value: 552 mg/kg

Soil

Value: 28 mg/kg



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8.2 Exposure controls

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

Eye protection : Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Light Yellow
Odour:	Like Fruit
Odour Threshold:	no data available
pH:	ca. 4,5
Melting point/range:	no data available
Boiling point/boiling range:	No information available.
Density:	ca. 0,995 g/cm ³
Water solubility:	soluble

9.2 Other information

Flow time (4 mm) : ca. 70 s

Refractive index : 18 °Brix

10. STABILITY AND REACTIVITY

10.1 Reactivity

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



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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.

Other information:

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Acute oral toxicity: Acute toxicity estimate: 2.363 mg/kg (Calculation method)

Skin corrosion/irritation: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation: May cause irreversible eye damage.

Respiratory or skin sensitization: no data available

Further information: no data available

Components:

didecyldimethylammonium chloride :

Acute oral toxicity: LD50 (rat): 238 mg/kg (OECD Test Guideline 401): Acute toxicity estimate: 500 mg/kg (Converted acute toxicity point estimate)

Acute dermal toxicity: LD50 (rabbit): 3.342 mg/kg

Skin corrosion/irritation: rabbit, Result: irritating, OECD Test Guideline 404, 3 min

Respiratory or skin sensitization: guinea pig, Result: Did not cause sensitization on laboratory animals., Buehler Test

Germ cell mutagenicity

Genotoxicity in vitro: Ames test, Result: negative, OECD Test Guideline 471: Chromosome aberration test in vitro, Result: negative

Genotoxicity in vivo: in vivo assay, rat, Oral, see user defined free text

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated :

Acute oral toxicity: LD50 Oral (rat): 500 - 2.000 mg/kg

Skin corrosion/irritation: Result: No skin irritation, OECD Test Guideline 404 Serious eye damage/eye irritation: rabbit, Result: Risk of serious damage to eyes., OECD Test



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Guideline 405

Respiratory or skin sensitization: Maximisation Test, guinea pig, Result: Did not cause sensitization on laboratory animals., OECD Test Guideline 406

propan-2-ol :

Acute oral toxicity: LD50 (rat): 5.280 mg/kg (OECD Test Guideline 401): LD50 Oral (rat): 3.570 mg/kg LD50 Oral (rabbit): 5.030 mg/kg

Acute inhalation toxicity: LC50 (rat, female, 8 h): 47,5 mg/l, (OECD Test Guideline 403)

: LC50 (rat, 4 h): 72,6 mg/l,

: LC50 (mouse, 4 h): 27,2 mg/l,

Acute dermal toxicity : LD50 (rabbit): 12.800 mg/kg (OECD Test Guideline 402)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

There is no data available for this product.

Components:

Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs. :

Toxicity to fish : LC50 (Danio rerio (zebra fish), 96 h): > 0,1 - 1 mg/l

Didecyldimethylammonium chloride :

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout), 96 h): 1,0 mg/l (OECD Test Guideline 203)

: LC50 (Pimephales promelas (fathead minnow), 96 h): 0,19 mg/l (see user defined free text)

: NOEC (Danio rerio (zebra fish), 34 d): 0,032 mg/l (see user defined free text)

: LC50 (Danio rerio (zebra fish), 96 h): 0,97 mg/l (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates.

: EC50 (Daphnia magna (Water flea), 48 h): 0,062 mg/l (Immobilization, see user defined free text)

: NOEC (Daphnia magna (Water flea), 21 d): 0,01 mg/l (Reproduction Test, OECD Test Guideline 211)

: EC50 (Daphnia magna (Water flea), 48 h): 0,057 mg/l (OECD Test Guideline 202)

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae), 96 h): 0,026 mg/l (Growth inhibition, OECD Test Guideline 201)

: EC50 (Pseudokirchneriella subcapitata (green algae), 72 h): 0,053 mg/l (OECD Test Guideline 201)

Toxicity to bacteria : EC50 (3 h): 11 mg/l (Respiration inhibition, see user defined free text)

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated :

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe), 96 h): 10 - 100 mg/l

Toxicity to daphnia and other aquatic invertebrates.

: EC50 (Daphnia, 48 h): 10 - 100 mg/l



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: NOEC (Daphnia magna (Water flea), 21 d): 12,5 mg/l (OECD Test Guideline 202)
Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 - 100 mg/l (see user defined free text)
Toxicity to bacteria : EC10 (no data available, 17 h): 48 mg/l (DIN 38412)

propan-2-ol :

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish), 96 h): 1.400 mg/l
: LC50 (Leuciscus idus (Golden orfe), 48 h): > 100 mg/l (static test, GLP: no)
Toxicity to daphnia and other aquatic invertebrates.
: EC50 (Daphnia magna (Water flea), 48 h): 13.299 mg/l
: EC50 (Daphnia magna (Water flea), 24 h): 9.714 mg/l
: EC50 (Daphnia magna (Water flea), 48 h): > 100 mg/l (static test, GLP: no)
Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l (Growth inhibition)
: EC50 (Pseudokirchneriella subcapitata, 72 h): > 100 mg/l (static test, GLP: no)
Toxicity to bacteria : EC50 (Aliivibrio fischeri, 5 min): 17.700 mg/l
: EC10 (Pseudomonas putida, 18 h): 5.175 mg/l (DIN 38412)

12.2 Persistence and degradability

There is no data available for this product.

Components:

didecyldimethylammonium chloride :

Biodegradability : 72 %, Exposure time: 28 d, see user defined free text, Readily biodegradable, according to appropriate OECD test.
: > 60 %, Result: rapidly biodegradable, OECD 301 D

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated :

Biodegradability : > 90 %, OECD 301 E
: > 60 %, Result: rapidly biodegradable, Exposure time: 28 d, OECD 301 B

propan-2-ol :

Biodegradability : 95 %, Result: rapidly biodegradable, Exposure time: 21 d, OECD 301 E
: 53 %, Result: rapidly biodegradable, Exposure time: 5 d
: > 70 %, Result: rapidly biodegradable, Exposure time: 10 d, GLP: no
: 99,9 %, see user defined free text

12.3 Bioaccumulative potential

There is no data available for this product.

Components:

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated :

Bioaccumulation : No bioaccumulation is to be expected (log Pow <= 4).



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propan-2-ol :

Bioaccumulation : Bioconcentration factor (BCF): 3

12.4 Mobility in soil

There is no data available for this product.

Components:

propan-2-ol :

Distribution among environ- : Koc: 25, Highly mobile in soils
mental compartments

12.5 Results of PBT and vPvB assessment

There is no data available for this product.

12.6 Other adverse effects

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic organisms.

Components:

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated :

Biochemical Oxygen Demand
(BOD)

: 1.650 mg/g

Chemical Oxygen Demand
(COD)

: 2.500 mg/g

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Waste Code : European Waste Catalogue
070699

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

14.1 UN number

ADR : 1903

IMDG : 1903



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14.2 Proper shipping name

ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs., didecyldimethylammonium chloride)

IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs. (EINECS), Didecyldimonium chloride (INCI))

14.3 Transport hazard class

ADR : 8

IMDG : 8

14.4 Packing group

ADR

Packaging group : II

Classification Code : C9

Hazard identification No : 80

Labels : 8

Tunnel restriction code : full load, tank-container, (E)

IMDG

Packaging group : II

Labels : 8

EmS Number : F-A, S-B

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : no

14.6 Special precautions for user

There is no data available for this product.

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

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



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Major Accident Hazard Legislation

: 96/82/EC Update:

Dangerous for the environment

9a

Quantity 1: 100 000067

Quantity 2: 200 000067

Volatile organic compounds

(VOC) content

: Percent volatile: 3,56 %

181,06 g/l

VOC content excluding water

Volatile organic compounds

(VOC) content

: Percent volatile: 3,56 %

35,46 g/l

VOC content valid only for coating materials used on wood

surfaces

GISBAU (D) : GD 40

15.2 Chemical Safety Assessment

There is no data available for this product.

16. OTHER INFORMATION

Full test of R-Phrases

R11 Highly

flammable.

R22 Harmful if

swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R41 Risk of serious

damage to eyes.

R50 Very toxic to

aquatic organisms.

R67 Vapours may

cause drowsiness

and dizziness.



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Full text of H-Statements

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.