

MATERIAL SAFETY DATA SHEET: Viru-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Viru-Gard
Description: DEFRA approved Powder Disinfectant
Appearance: Pink Coloured Powder
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details
Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Composition: A blend of inorganic peroxygen compound, inorganic salts, organic acid, Anionic detergents, fragrance and dye.

Chemical	Classification	% Conc.	CAS N°
Potassium monoperoxysulphate	O,C, R8, R34		50 79603-62.8

Sulphamic acid	Xi, R36/38, R52/53	<20	5329-14-6
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Sodium Chloride

3. HAZARDS IDENTIFICATION

Skin: May cause burns on prolonged or repeated contact.
Eyes: Dust may cause conjunctival irritation.
Inhalation: Exposure to dust may have the following effects: irritation of nose, throat and respiratory tract.
Ingestion: A large dose may have the following effects: coughing, nausea, vomiting,

4. FIRST AID MEASURES

Skin Contact: Wash skin with plenty of water
Eye Contact: Rinse eyes with plenty of clean water for at least ten minutes. Seek medical advice if symptoms persist.
Ingestion: Rinse out mouth with water. Do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Protection against Fire and Explosions: Wear self-contained breathing apparatus.
Suitable Fire Extinguishing Media: Foam, CO₂
Non Suitable Media: None
Special Exposure Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Spilled product may be swept up into suitable containers for recovery or disposal. Avoid creating a dust. Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Use in a ventilated area. Avoid creating a dust. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended Personal Protective Equipment:
Respiratory Protection: Dust masks if conditions are dusty.
Hand Protection: Impermeable gloves
Eye Protection: Protective glasses or goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink coloured powder
Odour: Slight pungent
Other Data: None relevant for safety

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: None
Materials to avoid: None
Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Test Data
Acute oral toxicity: LD30 (Rat) 4123 mg/kg
Acute dermal toxicity: LD30 (Rat) 2200mg/kg

12. ECOLOGICAL INFORMATION

Persistence and Degradability: No data is available, however accordance with 1999/45/EC, this product is not expected to display long term based on evaluation of its components in Adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

No special disposal method required, except that in accordance with local authority regulations.

14. TRANSPORT INFORMATION

UN N° 3260 Corrosive Solid Acidic Inorganic N.O.S. (contains potassium monopersulphate)
Primary Hazard Corrosive
Packing Group III
H.I. Number 80
Emergency action code 2X

15. REGULATORY INFORMATION

Labelling: O Oxidising
C Corrosive
Risk phrases: R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R34 Causes burns.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the environment.
Safety phrases: S17 keep away from combustible material
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.

16. OTHER INFORMATION

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond control of our company, it is the responsibility of the user to Determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

MATERIAL SAFETY DATA SHEET: Egg-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Egg-Gard
Description: Low foam powder for washing eggs.
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details: Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	Classification	% Conc.	CAS N°
Potassium monopersulphate	C, R34, R22	>10	6834-92-0
Soda Ash	Xi, R36	<10	497-19-8

3. HAZARDS IDENTIFICATION

Skin: May cause burns on prolonged or repeated contact.
Eyes: Dust may cause conjunctival irritation.
Inhalation: Exposure to dust may have the following effects: irritation of nose, throat and respiratory tract.
Ingestion: A large dose may have the following effects: coughing, nausea, vomiting,

4. FIRST AID MEASURES

Skin Contact: Wash skin with plenty of water
Eye Contact: Rinse eyes with plenty of clean water for at least ten minutes. Seek medical advice if symptoms persist.
Ingestion: Rinse out mouth with water. Do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Protection against Fire and Explosions: Wear self-contained breathing apparatus.
Suitable Fire Extinguishing Media: Foam, CO₂
Non Suitable Media: None
Special Exposure Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Spilled product may be swept up into suitable containers for recovery or disposal. Avoid creating a dust. Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Use in a ventilated area. Avoid creating a dust. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended Personal Protective Equipment:
Respiratory Protection: Dust masks if conditions are dusty.
Hand Protection: Impermeable gloves
Eye Protection: Protective glasses or goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder.
Odour: Slight
Other Data: None relevant for safety

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.
Conditions to avoid: None
Materials to avoid: None
Hazardous Decomposition Products: None.

11. TOXICOLOGICAL INFORMATION

Non available

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

UN N°	3260	Corrosive Solid Acidic Inorganic N.O.S. (contains potassium monopersulphate)
Primary Hazard	Class 8	Corrosive
Packing Group	III	
H.I. Number	80	
Emergency action code	2X	

15. REGULATORY INFORMATION

Labelling:	C	Corrosive
Risk phrases:	R22	Harmful if swallowed
	R34	Causes burns
Safety phrases:	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36	Wear suitable protective clothing.

16. OTHER INFORMATION

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MATERIAL SAFETY DATA SHEET: Farm-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Farm-Gard
Description: DEFRA Approved Liquid Disinfectant
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details: Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	Classification	% Conc.	CAS N°	Exposure
tar acids, polyalkylphenol fraction	T;C;Xi;N R24/25, R34, R43, R51/53	30 - 45	84989-05-9	OES 22mg/m ³ recommended (8hour TWA Ref Period)
acetic acid	C, R34, R22, R10	30 - 40	64-19-7	OES 25mg/m ³ (8hour TWA Ref Period)
dodecyl benzene sulfonic acid	C;Xn R34, R22	15 - 30	85117-49-3	None assigned
M-Cresol	T;C; R24/25, R34, R52/53	1 - 5	1319-77-3	OES 22mg/m ³ recommended (8hour TWA Ref Period)

3. HAZARDS IDENTIFICATION

Emergency Overview

Description: A blend of tar acids, organic acids and surfactants.

Appearance: Dark brown liquid.

Potential Health Effects

Environmental Hazards: Toxic to aquatic organisms. May cause long-term adverse effects in the environment.

Human Health hazards: Causes burns. Toxic in contact with skin and if swallowed. May cause sensitisation by skin contact.

4. FIRST AID MEASURES

Symptoms: First Aid

Skin Contact: Burning sensation: Immediate thorough swabbing with 70:30 glycerol:methylated spirits is preferred but in the absence of this, Drench skin with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention.

Eye Contact: Severe damage may occur: Rinse eyes with plenty of clean water for at least 15 minutes. Seek medical attention immediately.

Ingestion: Burns to throat and upper digestive tract: Do not induce vomiting. Rinse out mouth and throat thoroughly with water. Drink water. Seek urgent medical attention.

Inhalation: Severe irritation of nose: Remove from exposure. If symptoms persist seek throat and lungs-coughing medical attention.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, Foam, Dry chemical
Special Precautions: Do not breathe smoke or fumes. Fire fighting personnel are required to wear self-enclosed breathing apparatus in the event of a fire involving FARM-GARD since SO₂, CO₂, CO and other toxic gases are evolved at high temperatures.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (see section 8). Do not let product enter drains or watercourses. Absorb with sand or earth, shovel into suitable containers for disposal. Flush away traces with water after cleaning. Ensure washings do not enter surface drains.

7. HANDLING AND STORAGE

Store in a cool dry place away from direct sunlight. Do not eat, drink or smoke when handling this product. Wear protective clothing (see section 8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Appropriate local exhaust ventilation (LEV) measures should be used in cases where vapour build up occurs during handling of the concentrate.

Control parameters: 22mg/m³ as total phenols

Recommended Personal Protective Equipment:

Respiratory Protection: Mask with:
a) Cartridge type AE (organic vapour / acid gas) for handling concentrate.
b) AEP (organic vapour/acid gas/particulate filter) for spraying application of diluted product.

Hand Protection: Impermeable gloves

Eye Protection: Protective glasses or goggles to BS EN 166 standard.

Skin: Chemically resistant overalls, rubber boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown liquid.

pH: < 2.0 (1% solution)

Odour: Acetic acid and coal tar

Solubility: Forms emulsion with water.

Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: Excessive heat, direct sunlight.

Materials to avoid: Oxidising agents and strong bases.

Hazardous Decomposition Products: During combustion, sulphur dioxide, carbon monoxide and carbon dioxide may be produced.

11. TOXICOLOGICAL INFORMATION

Corrosive to skin and eyes.

Toxic by skin contact and if swallowed.

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

Not expected to be readily biodegradable.

Farm-Gard diluted to a level of 1:30,000 has been shown to have no effect on the BOD 5-day test.

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

UN No.	2922	Corrosive Liquid, Toxic, N.O.S. (tar acids;polyalkyl phenol fraction)
Primary Hazard	Class 8	Corrosive
Subsidiary Hazard	Class 6.1	Toxic
Packing Group	II	
H.I. Number	86	
Marine Pollutant	Yes	

15. REGULATORY INFORMATION

EEC Classification: CORROSIVE, TOXIC, DANGEROUS TO THE ENVIRONMENT

Hazard Labelling: C Corrosive
T Toxic

Risk Phrases: R24/25. Toxic in contact with skin and if swallowed

R10 Flammable

R34 Causes burns

R43 May cause sensitisation by skin contact

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the environment.

Safety Phrases: S2 Keep out of reach of children

S13 Keep away from food, drink and animal feedstuffs.

S26 In case of contact with eyes, rinse immediately with plenty of water.

S45 In case of accident or if you feel unwell, seek medical advice immediately 9 show label where possible)

16. OTHER INFORMATION

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MATERIAL SAFETY DATA SHEET: Gluta-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: GLUTA-GARD
Description: Liquid Detergent/Disinfectant
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details: Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	Classification	% Conc.	CAS N°	Exposure
cocoalkyl dimethylbenzyl ammonium chloride	C; R21/22 R34N; R50	15 - 25	68391-01-5	None assigned
glutaraldehyde 50%	T; R23/25, C; R34, R42/43	20 - 40	000111-30-8	STEL 0.2ppm 0.7 mg/m3

3. HAZARDS IDENTIFICATION

Emergency Overview

Description: Concentrated animal health disinfectant.

Appearance: Clear amber liquid.

Potential Health Effects

Human Health Hazards: Causes burns, harmful by inhalation and if swallowed, may cause sensitisation by inhalation and skin contact.

4. FIRST AID MEASURES

Symptoms: First Aid

Skin Contact: Causes burns: Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water. Seek medical attention if symptoms persist.

Eye Contact: Causes burns. Rinse eyes with plenty of clean water for at least 15 minutes. Seek medical attention immediately.

Ingestion: Burns to mouth, throat, upper digestive tract and stomach. Do not induce vomiting. Rinse out mouth and throat thoroughly with water. Drink warm water. Seek medical attention.

Inhalation: May cause irritation and burning to nose throat and respiratory tract through inhalation of spray mists of the diluted product. Remove from exposure and keep at rest. If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, Foam, Dry chemical, CO2

Special precautions: Avoid naked flames. Fire-fighters should wear self-contained breathing apparatus. May produce toxic fumes in a general conflagration.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (see section 8). Do not let product enter drains or watercourses. Absorb with sand or earth, shovel into suitable containers for disposal. Flush away traces with water after cleaning. Ensure washings do not contaminate water courses or sewers.

7. HANDLING AND STORAGE

Store in a cool dry place away from other chemicals. Protect from extreme temperatures. Do not eat, drink or smoke when handling this product. Keep container tightly closed when not in use. Wear protective clothing (see section 8) when diluting this product. Avoid inhalation of vapour and contact with skin and eyes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No specific measures required provided the product is handled according to general safety procedures.

Control parameters: None assigned

Recommended Personal Protective Equipment:

Respiratory Protection: When working in spray mists of the concentrate or diluted product, the use of a respiratory mask, fitted with an organic vapour/particulate filter unit is recommended, particularly where ventilation is considered to be poor and/or when operating in enclosed areas.

Hand Protection: Impermeable gloves

Eye Protection: Protective glasses or goggles to BS EN 166 standard.

Skin: Chemically resistant overalls, rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber liquid.

Odour: Fragrant, aromatic

Solubility: Miscible with water.

Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: Excessive heat.

Materials to avoid: Acids, alkalis, aluminium.

Hazardous Decomposition Products: None in normal use.

11. TOXICOLOGICAL INFORMATION

Repeated skin contact with concentrate may cause allergic contact dermatitis. Harmful if swallowed.

May aggravate existing asthmatic conditions.

12. ECOLOGICAL INFORMATION

Bioaccumulation is not expected.

The ammonium compound has a biological degradability of greater than 90% (EEC 82/243)

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

UN N°: 3265
Corrosive Liquid, Acidic, Organic, N.O.S. (glutaraldehyde, alkyl dimethyl benzylammonium chloride)

Primary Hazard: Class 8
Corrosive

Packing Group: II

H.I. N°: 80

Emergency action code: 2X

15. REGULATORY INFORMATION

EEC Classification: CORROSIVE

Hazard Labelling: C

Risk Phrases: R20/22 Harmful by inhalation and if swallowed.

R34 Causes burns.

R42/43 May cause sensitisation by inhalation and skin contact.

Safety Phrases: S2 Keep out of reach of children

S13 Keep away from food, drink and animal feedstuffs.

S26 In case of contact with eyes, rinse immediately with plenty of water.

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 and show label where possible)

16. OTHER INFORMATION

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MATERIAL SAFETY DATA SHEET: Hatch-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: HATCH-GARD

Description Liquid Detergent/Disinfectant

Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK

Contact Details
Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	Classification	% Conc.	CAS N°	Exposure
cocoalkyl dimethylbenzyl ammonium chloride	C; R21/22 R34 N; R50	10 - 20	68391-01-5	None assigned

3. HAZARDS IDENTIFICATION

Emergency Overview

Description Microbiocide with a nonionic surfactant.

Appearance: Straw Coloured Liquid

Potential Health Effects

Human Health Hazards: Causes burns, harmful if swallowed

4. FIRST AID MEASURES

Symptoms First Aid

Skin Contact: Irritating. Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water.

Eye Contact Irritating: Rinse eyes with plenty of clean water for at least 15 minutes. Seek medical attention immediately.

Ingestion Irritation to throat, upper digestive tract and stomach: Do not induce vomiting. Rinse out mouth and throat thoroughly with water. Drink water or milk. Seek medical attention.

Inhalation May cause irritation to nose, throat and respiratory tract through inhalation of spray mists of the diluted product. Remove from exposure and keep at rest. If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, Foam, Dry chemical, CO₂

Special precautions Avoid naked flames. Fire-fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (see section 8). Do not let product enter drains or watercourses. Absorb with sand or earth, shovel into suitable containers for disposal. Flush away traces with water after cleaning. Ensure washings do not enter surface drains.

7. HANDLING AND STORAGE

Store in a cool dry place away from other chemicals. Protect from extreme temperatures. Do not eat, drink or smoke when handling this product. Wear protective clothing (see section 8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No specific measures required provided the product is handled according to general safety procedures.

Control parameters: None assigned

Recommended Personal Protective Equipment:

Respiratory Protection: None required when handling the product concentrate under normal usage conditions. When working in spray mists of the diluted product, the use of a respiratory mask, fitted with an organic vapour/particulate filter unit is recommended, particularly where ventilation is considered to be poor and/or when operating in enclosed areas.

Hand Protection: Impermeable gloves

Eye Protection: Protective glasses or goggles to BS EN 166 standard.

Skin: Chemically resistant overalls, rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Straw coloured liquid

Odour: No Characteristic odour.

Solubility: Miscible with water.

Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: Excessive heat.

Materials to avoid: Oxidising agents

Hazardous Decomposition Products: During combustion, carbon and nitrogen oxides, NH₃ may be produced.

11. TOXICOLOGICAL INFORMATION

Causes burns.

12. ECOLOGICAL INFORMATION

Bioaccumulation is not expected.

The ammonium compound has a biological degradability of greater than 90% (EEC 82/243)

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

UN No. 1760 Corrosive Liquid N.O.S. (alkyl dimethyl benzylammonium

chloride)

Primary Hazard Class 8 Corrosive

Packing Group III

H.I. Number 80

Emergency action code 2X

15. REGULATORY INFORMATION

EEC Classification: CORROSIVE

Hazard Labelling: C Corrosive

Risk Phrases: R34 Causes burns.

R22 Harmful if swallowed

Safety Phrases: S2 Keep out of reach of children

S13 Keep away from food, drink and animal feedstuffs.

S26 In case of contact with eyes, rinse immediately with plenty of water.

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 9 show label where possible)

16. OTHER INFORMATION

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Issue Date: 19/12/05

MATERIAL SAFETY DATA SHEET: Quat-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Quat-Gard
Description: Liquid Detergent/Sanitiser
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details: Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	Classification	% Conc.	CAS N°	Exposure
propan-2-ol	F; R11; Xi; R36, R67	5 – 10	67-63-0	OES 500ppm recommended (15minute Ref Period)
quaternary ammonium compounds, C12-C16-alkyldimethyl, chlorides	C; R34; Xn; R22; N; R50	8 – 20	68424-85-1	None assigned

3. HAZARDS IDENTIFICATION

Emergency Overview

Description: Quaternary ammonium biocide with a nonionic surfactant.

Potential Health Effects

Environmental Hazards: Harmful to aquatic organisms.

Human Health Hazards: Irritating to skin

Harmful if swallowed.

Risk of serious damage to eyes.

4. FIRST AID MEASURES

Symptoms	First Aid
Skin Contact:	May cause irritation. May defat skin. Remove contaminated clothing and wash before reuse Rinse skin with plenty of water.
Eye Contact	Severe damage may occur. Rinse eyes with plenty of clean water for at least 15 minutes. Seek immediate medical attention.
Ingestion	Severe irritation to throat, upper digestive tract and stomach: Do not induce vomiting. Rinse out mouth and throat thoroughly with water. Drink water or milk. Seek medical attention.
Inhalation	May cause irritation to nose, throat and respiratory tract through inhalation of spray mists of the diluted product. Remove from exposure and keep at rest. If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, Foam, Dry chemical, CO₂

Special precautions

Avoid naked flames. Fire-fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (see section 8). Do not let product enter drains or watercourses. Absorb with sand or earth, shovel into suitable containers for disposal. Flush away traces with water after cleaning. Ensure washings do not enter surface drains.

7. HANDLING AND STORAGE

Store in a cool dry place away from other chemicals. Protect from frost.

Do not eat, drink or smoke when handling this product.

Wear protective clothing (see section 8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No specific measures required provided the product is handled according to general safety procedures.

Control parameters: None assigned

Recommended Personal Protective Equipment:

Respiratory Protection: None required when handling the product concentrate under normal usage conditions. When working in spray mists of the diluted product, the use of a respiratory mask, fitted with an organic vapour/particulate filter unit is recommended, particularly where ventilation is considered to be poor and/or when operating in enclosed areas.

Hand Protection: Impermeable gloves

Eye Protection: Protective glasses or goggles to BS EN 166 standard.

Skin: Chemically resistant overalls, rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear blue liquid.

pH: Approx 7.5 (1% solution @ 20°C)

Odour: Faint alcoholic / lemon

Solubility: Miscible with water.

Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: Excessive heat. Do not allow to freeze.

Materials to avoid: Soaps.

Hazardous Decomposition Products: During combustion, carbon and nitrogen oxides, NH₃ may be produced.

11. TOXICOLOGICAL INFORMATION

Irritating to skin and may cause serious damage to eyes.

Harmful if swallowed

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

Bioaccumulation is not expected.

The quaternary ammonium compound has a biological degradability of greater than 90% in the OECD confirmatory test.

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport in accordance with current IATA and IMDG Code Regulations and International Carriage of Dangerous Goods by Road Regulations 2005.

15. REGULATORY INFORMATION

EEC Classification: HARMFUL

Hazard Labelling: Xn HARMFUL

Risk Phrases: R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R52 Harmful to aquatic organisms.

Safety Phrases: S2 Keep out of reach of children

S13 Keep away from food, drink and animal feedstuffs.

S26 In case of contact with eyes, rinse immediately with plenty of water.

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 label where possible)

16. OTHER INFORMATION

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond control of our company, it is the responsibility of the user to Determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

MATERIAL SAFETY DATA SHEET: Para-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Para-Gard
Description: Fumigating Agent for Livestock Disinfection
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details
Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Composition: A powder containing prilled 93% active paraformaldehyde.
Chemical Classification % Conc.
Paraformaldehyde e C, R8, R34 93%

3. HAZARDS IDENTIFICATION

Skin: May cause burns on prolonged or repeated contact.
Eyes: Burning of eyes and cause conjunctival irritation.
Inhalation: Irritation on nose, throat, and respiratory tract.
Ingestion: Harmful if swallowed, causes nausea and vomiting.

4. FIRST AID MEASURES

Skin Contact: Wash skin with plenty of water.
Eye Contact: Rinse eyes with plenty of clean water for at least ten minutes.
Seek medical advice if symptoms persist.
Ingestion: Rinse out mouth with water. Do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Protection Against Fire and Explosions: Wear self-contained breathing apparatus.
Suitable Fire Extinguishing Media: Foam, CO₂
Non Suitable Media: None
Special precautions: None

6. ACCIDENTAL RELEASE MEASURES

Spilled product may be swept up into suitable containers for recovery or disposal.
Avoid creating a dust. Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Use in a ventilated area. Avoid creating a dust. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended Personal Protective Equipment:
Respiratory Protection: Wear self contained breathing apparatus if conditions are dusty.
Hand Protection: Impermeable gloves.
Eye Protection: Protective glasses or goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Granules (Prills)
Odour: Characteristic Pungent Odour
Flash Point : 70oc
PH (10% Solution) : 3.5 – 6.5

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.
Conditions to avoid: Extreme of temperature.
Materials to avoid: Aluminium, Zinc or other alloys.
Hazardous Decomposition Products: Formaldehyde gas.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: : Irritating to eyes and mucous membranes.
Inhalation : Irritating.
Skin Contact: Inflammatory Dermatitis.
Eye Contact: Causes burns.
Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Persistence and Degradability : The product is readily biodegradable.
Bio accumulation : Product is not expected to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

No special disposal method required, except that in accordance with local authority regulations.

14. TRANSPORT INFORMATION

UN N°: 2213
EEC Regulation: C, Corrosive Solid (Paraformaldehyde)
Primary Hazard: Corrosive
IMCO Class: 4.1
Packing Group: III

15. REGULATORY INFORMATION

Labelling: C Corrosive
Risk phrases R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R34 Causes burns.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the environment.
Safety phrases: S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.

16. OTHER INFORMATION

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond control of our company, it is the responsibility of the user to Determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

MATERIAL SAFETY DATA SHEET: Bio-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Bio-Gard
Description: Liquid Multipurpose Heavy Duty Cleaner
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details: Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Chemical	Classification	% CAS N° Conc.	Exposure
Disodium Trioxosilicate	C; R34	5 - 10	OES 500ppm recommended (15minute Ref Period)
Cocoalkyl Dimethylbenzyl Ammonium Chloride	C; R21/22 R34 N; R50	5 - 10	68391-01-5 None assigned
Fatty Alcohol Ethoxylate	Xn; R22, R36/38	1 - 10	None assigned

3. HAZARDS IDENTIFICATION

Emergency Overview
Description: Microbiocide with a nonionic surfactant.
Appearance: Clear liquid.
Potential Health Effects
Human Health Hazards: Irritating to skin and eyes

4. FIRST AID MEASURES

Symptoms First Aid
Skin Contact: Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water.
Eye Contact: Rinse eyes with plenty of clean water for at least 15 minutes. Seek medical attention immediately.
Ingestion: Do not induce vomiting. Rinse out mouth and throat upper digestive tract and thoroughly with water. Drink water or milk. Seek medical attention.
Inhalation: Remove from exposure and keep at rest. If symptoms throat and respiratory tract persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, Foam, Dry chemical, CO₂
Special precautions: Avoid naked flames. Fire-fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (see section 8). Do not let product enter drains or watercourses. Absorb with sand or earth, shovel into suitable containers for disposal. Flush away traces with water after cleaning. Ensure washings do not enter surface drains.

7. HANDLING AND STORAGE

Store in a cool dry place away from other chemicals. Protect from extreme temperatures.
Do not eat, drink or smoke when handling this product.
Wear protective clothing (see section 8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No specific measures required provided the product is handled according to general safety procedures.
Control parameters: None assigned
Recommended Personal Protective Equipment:
Respiratory Protection: None required when handling the product concentrate under normal usage conditions. When working in spray mists of the diluted product, the use of a respiratory mask, fitted with an organic vapour/particulate filter unit is recommended, particularly where ventilation is considered to be poor and/or when operating in enclosed areas.
Hand Protection: Impermeable gloves
Eye Protection: Protective glasses or goggles to BS EN 166 standard.
Skin: Chemically resistant overalls, rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid.
Odour: Faint
Solubility: Miscible with water.
Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.
Conditions to avoid: Excessive heat.
Materials to avoid: Oxidising agents
Hazardous Decomposition Products: During combustion, carbon and nitrogen oxides, NH₃ may be produced.

11. TOXICOLOGICAL INFORMATION

Irritating to skin and eyes.

12. ECOLOGICAL INFORMATION

Bioaccumulation is not expected.
The quaternary ammonium compound has a biological degradability of greater than 90% in the OECD confirmatory test.

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport in accordance with current IATA and IMDG Code Regulations and International Carriage of Dangerous Goods by Road Regulations 2005.

15. REGULATORY INFORMATION

EEC Classification: IRRITANT
Hazard Labelling: Xi IRRITANT
Risk Phrases: R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
Safety Phrases: S2 Keep out of reach of children
S13 Keep away from food, drink and animal feedstuffs.
S26 In case of contact with eyes, rinse immediately with plenty of water.
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 label where possible)

16. OTHER INFORMATION

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Cyst-Gard
 Responsible Company: Farm Care GB Ltd.
 336 Waterloo Quay, Waterloo Road. Liverpool,
 L3 0BT, UK
 Contact Details
 Tel: +66 872771060
 Fax: +66 76 27 0865
 info@farmcaregb.com
 www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients	Chemical	Classification	% Conc.	CAS N°
	4-Chloro-3-methylphenol	Xn, N R21/22-41-43-50	>10	000059-50-7
	Alkyl benzene sulphonic acid	C, R34, R22	>20	85117-49-3
	Lactic acid	Xi, R38-41	>20	79-33-4

3. HAZARDS IDENTIFICATION

Emergency Overview

Description: Anti viral disinfectant.
 Appearance: Brown liquid.

Potential Health Effects

Environmental Hazards: Very toxic to aquatic organisms.
 Human Health hazards: Causes burns. Risk of serious damage to eyes.

4. FIRST AID MEASURES

symptoms First Aid
 Skin Contact: Burning sensation: Drench skin with plenty of water Remove contaminated clothing and wash before reuse. If symptoms persist seek medical attention.
 Eye Contact: Pain and reddening: Rinse eyes with plenty of clean water for at least 10 minutes. Seek medical attention.
 Ingestion: Burns to throat and upper digestive tract Rinse out mouth and throat thoroughly with water. Drink water. Seek medical attention.
 Inhalation: Irritation of nose, throat. Remove from exposure. If symptoms persist seek and lungs-coughing medical attention.

5. FIRE FIGHTING MEASURES

HMIS RATING :
 Suitable Fire Extinguishing Media: Water, Foam
 Health = 1
 Non Suitable Media: None
 Flammability = 0
 Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Wear suitable gloves and face protection. Do not let product enter drains. Sweep up and shovel into suitable containers for disposal. Flush away traces with water

after cleaning.

7. HANDLING AND STORAGE

Avoid heat above 40°C.
 Do not eat, drink or smoke when handling this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Personal Protective Equipment:
 Respiratory Protection: Dust mask.
 Hand Protection: Impermeable gloves
 Eye Protection: Protective glasses or goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown liquid.
 Odour: None
 Solubility: Completely miscible in water.
 Other Data: None relevant for safety.

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.
 Conditions to avoid: None.
 Materials to avoid: None
 Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

None available.

12. ECOLOGICAL INFORMATION

None available

13. DISPOSAL CONSIDERATIONS

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWC.

14. TRANSPORT INFORMATION

UN No. 3265 Corrosive Liquid,
 Acidic, Organic N.O.S. (alkyl benzene sulphonic acid)
 Primary Hazard Corrosive
 Packing Group III
 H.I. Number 80
 Emergency action code 2X

15. REGULATORY INFORMATION

EEC Classification : CORROSIVE, DANGEROUS TO THE ENVIRONMENT.
 Hazard Labelling : C – Corrosive
 N – Dangerous to the environment
 Risk Phrases : R21/22. R34, R41, R43, R50,
 Safety Phrases : S26/27 S36/37/39 S61
 The active ingredient and all components of the preparation are listed on the TSCA inventory.

16. OTHER INFORMATION

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

MATERIAL SAFETY DATA SHEET: Phen-Gard

Issue N° 4 Issue Date: 16/4/20128

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Phen-Gard
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details
Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical	CAS N°	% Conc.	Hazard
gluteraldehyde	111-30-8	<20	000059-50-7
2-benzyl-4-chlorophenol	12-32-1R22	<5	Xi, N
4-chloro-3-methylphenol	59-50-7	<10	Xn, N
Secondary alkane sulphonate	85711-69-9	<15	Xi,
isopropyl alcohol	000067-63-0	<10	F, Xi

3. HAZARDS IDENTIFICATION

Emergency Overview

Environmental Hazards : Very toxic to aquatic organisms.
Human Health Hazards Corrosive – Causes burns

Risk of serious damage to eyes.

Harmful in contact with skin and if swallowed

May cause sensitisation by skin contact, inhalation and if swallowed

4. FIRST AID MEASURES

Symptoms	First Aid
Skin Contact:	Burning sensation Drench skin with plenty of water. Remove contaminated clothing and wash before reuse. If symptoms persist seek medical attention.
Eye Contact	Pain and reddening Rinse eyes with plenty of clean water for at least 10 minutes. Seek medical attention.
Ingestion	Burns to throat and upper digestive tract Rinse out mouth and throat thoroughly with water. Drink water. Seek medical attention.
Inhalation	Irritation of nose, throat and lungs - coughing. Remove from exposure. If symptoms persist seek medical attention.

5. FIRE FIGHTING MEASURES

Protection against Fire and Explosions: No special requirements
Suitable Fire Extinguishing Media: Water, Foam
Non Suitable Media: None
Special Exposure Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Dam up with absorbing material, e.g. sand,
Transfer to container for disposal in accordance with waste regulations. Do not allow to enter drains or water courses. In case of contamination contact local water authority immediately.

7. HANDLING AND STORAGE

Store in a cool well ventilated area. Keep containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels.

Recommended Personal Protective Equipment:

Respiratory Protection: Wear respiratory equipment in case vapours and aerosols are emitted.

Hand Protection: Impermeable gloves recommended.

Eye Protection: Protective glasses or eye shield

Other Protective Equipment: Wear protective clothing

Skin contact and inhalation of vapours and spray should be absolutely avoided.

Ensure efficient ventilation and an adequate supply of fresh air in confined working areas when using this product. Keep away from food and drink.

Do not eat, drink or smoke at work.

Remove all contaminated clothing immediately.

Wash hands before breaks and at end of work and use skin-protecting ointment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red clear liquid.
Odour: Sharp, characteristic odour
pH: 6.5 – 7.0
Other Data: None relevant for safety

10. STABILITY AND REACTIVITY

This preparation is stable under normal conditions of use.

Conditions to avoid: None

Materials to avoid: None

Hazardous Decomposition Products: None.

11. TOXICOLOGICAL INFORMATION

Results are by analogy from the constituent components:

LD50 oral, rat: 2200 mg/kg

LD50 dermal, rabbit: >2500 mg/kg

12. ECOLOGICAL INFORMATION

Do not allow to escape into waterways, waste water, soil.

Product contains organic halogen and may add to the AOX-value of effluent water.

13. DISPOSAL CONSIDERATIONS

Disposal method required to be in accordance with local authority regulations. Contaminated, empty containers are to be treated in the same way as the contents.

14. TRANSPORT INFORMATION

RID/ADR: 8
UN: 1760 PG:III
Hazard No.: 80
IMDG Code: 8
UN:1760 PG:III
ICAO.IATA-DGR: 8
UN: 1760 PG:III
Proper Shipping Name:: Corrosive liquid, n.o.s. (GLUTARALDEHYDE)

15. REGULATORY INFORMATION

Labelling as required by the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3), in accordance with EC Directives:

Symbols: C, Xn, N

Risk Phrases R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R34 Causes burns

R41 Risk of serious damage to eyes

R42/43 May cause sensitisation by inhalation and skin contact

R50 Very Toxic to aquatic organisms.

Safety Phrases : S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 label where possible).

S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheet.

16. OTHER INFORMATION

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Since the conditions of use are beyond control of our company, it is the responsibility of the user to Determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.

MATERIAL SAFETY DATA SHEET: Mite-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Mite-Gard
Responsible Company: Farm Care GB Ltd.
336 Waterloo Quay, Waterloo Road. Liverpool,
L3 0BT, UK
Contact Details
Tel: +66 872771060
Fax: +66 76 27 0865
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Proprietary aqueous preparation containing a blend of Cationic, Amphoteric & Non-ionic Surface Active Agents & Water conditioners with/without perfume.

Hazardous Ingredients

Chemical	CAS N°	EEC N°	Risk Phrases
Quaternary Ammonium Compound	N/K	N/K	R34/22
Polybiguanide Hydrochloride.	027083-27-8	N/K	R38/43
Lactic acid	6813-39-5	N/K	R22/36/50

3. HAZARDS IDENTIFICATION

Aqueous detergent system which may have some defatting action on the skin. Hazardous material present at a significantly low level thus rendering the preparation low hazard.

4. FIRST AID MEASURES

Symptoms First Aid
Inhalation: Not applicable in normal operations, but as a precaution remove to fresh air.
Skin: Wash off with soap and water and rinse off.
Eyes: Flush with clean water for 10 minutes. If irritation persists obtain medical attention
Ingestion: Wash out mouth with water and give water or milk to drink to dilute, Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Preparation is not flammable Wear self-contained breathing apparatus.
Suitable Fire Extinguishing Media: CO₂, Foam, dry powder, water fog
Thermal decomposition Product CO, CO₂, oxides of nitrogen and sodium.
Special Equipment Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Dilute and flush very small amounts to foul sewer. Note: Consent to discharge trade effluent into the foul sewer must be obtained from local water authority/ company. Collect up in large container quantities and/or absorb in soil or sand and place in a suitable plastic or steel container for subsequent disposal to an approved site. Wash down spill area with plenty of water. Wear suitable industrial workwear, impervious gloves and eye/face protection.

7. HANDLING AND STORAGE

Keep container closed when not in use, store under normal conditions avoid contact with preparation. Avoid contacts with concentrate. Wear suitable industrial/institutional workwear. Keep away from foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure: No exposure limits quoted.
Protection Measures: Adopt good standards of industrial health and hygiene practices. Although highly diluted is not classified as hazardous, mists may be annoying therefore adequate ventilation is recommended. Where this is not available, local mechanical exhaust is recommended and/or use suitable respirators for mists particulates. Wear suitable industrial/institutional workwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colourless liquid
Specific gravity: 1.03
pH (Neat): 12.3 approx.
Boiling point: Approx. 100c
Freezing point: 0° C
Flash point: N/A
Vapour pres (mmHg): As water
Sol/Misc: Soluble
% Volatile: 8.5%

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazard decomposition products: Carbon dioxide, carbon monoxide, hydrogen chloride, oxides of nitrogen.
Materials to avoid: In use cationic bacteriacides neutralised by soap and other anionic surface acting agents.

11. TOXICOLOGICAL INFORMATION

Mists may cause annoyance to eyes, by inhalation and there might be some irritation to sensitive skins. From literature, thought to be of low toxicity.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in aqueous system.
Aquatic toxicity: Maybe detrimental due to surface active effects.
Degradability: Slowly biodegradable in water.
Bioaccumulation: Predicted to have low potential for bioaccumulation. Cationic substances are regarded to be effectively removed in waste water treatment processes by complex formulation and absorption.

Do not allow to escape into waterways, waste water, soil.
Product contains organic halogen and may add to the AOX-value of effluent water.

13. DISPOSAL CONSIDERATIONS

Preparation via an authorised waste disposal contractor to approved waste disposal site, observing all local and national regulations.

14. TRANSPORT INFORMATION

U.N. No: Not Regulated
Primary hazard: Not Regulated
Packaging Gp: Not Regulated
Hazard I.D. No: Not Regulated
Class: Not Regulated
ADR/RID Item No: Not Regulated
Hazchem: Not Regulated
Emergency Action Code: Not Regulated

15. REGULATORY INFORMATION

Supply label Details: Ref CHIP 98 (Revised).
Label Name: Mite-Gard.
Symbol: Classified as Irritant under CHIP 98 (revised dec 99) Regulations.
Risk & Safety Phrases: As declared.

16. OTHER INFORMATION

Voluntary Phrases: 1). Not classified under CHIP 98 (revised dec 99) Regulations.
2). R36/38 Irritant if normal standards of industrial hygiene are observed.
3). S2 Keep out of the reach of children.
4). S26 Eye contact: Wash with plenty of water.
5). S2 Skin contact: Wash off with water.
6). For further information see Safety Data Sheet and/or seek medical attention.
Symbols: TWA Time weighted average.
N/K Not known.
N/A Not applicable.
OES Occupational exposure standard.
RPE Respiratory protective equipment.

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MATERIAL SAFETY DATA SHEET: Oxy-Gard

Issue N° 4 Issue Date: 16/4/2012

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Commercial Product Name: Oxy-Gard
Description: DEFRA Approved Liquid Disinfectant
Responsible Company: Farm Care GB Ltd.
Unit 2, Becklands Park Industrial Estate,
York Road,
Market Weighton, York, East Yorkshire
YO43 3GA, UK
Contact Details: Tel: +66 872771060
Fax: +44 1430 76622
info@farmcaregb.com
www.farmcaregb.com

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients:

	Peracetic Acid	Hydrogen peroxide	Acetic Acid:
% Concentration	4.5 - > 5.5%	20% - < 30%	> 5% - < 20%
CAS Number	79-21-0	7722-84-1	64-19-7
EC Number	201-186-8		200-580-7
Symbol (s):	O, Xn, C, N	O, C	C
Risk Phrases	R7, R10, R20/21/22, R35, R50	R8, R34	R10, R35

3. HAZARDS IDENTIFICATION

Causes burns. May cause fire.

Risk of decomposition in contact with incompatible substances, impurities, metals, alkalis, reducing agents.

Danger of decomposition if exposed to heat.

See also section 10.

4. FIRST AID MEASURES

General advice: Move out of dangerous area. Take care of your own personal safety. Keep out unprotected persons.

Inhalation:	Move affected persons out into fresh air. Possible discomfort: Irritates skin and mucous linings of the eyes and respiratory tract, cough. If breathing difficulties occur (e.g. severe continual cough): Keep patient half sitting with upper body raised. Keep warm and in a quiet place. Call a doctor immediately.
Skin contact:	After contact with skin wash immediately with plenty of water for at least 15 minutes. Take all contaminated clothing off immediately. Consult a doctor.
Eye contact:	With eye held open, thoroughly rinse at once with a gentle stream of water for at least 10 minutes. Protect unharmed eye. Continue rinsing process with eye rinsing solution. Call ambulance (cue: caustic burn of the eyes) Immediate further treatment in ophthalmic hospital/ ophthalmologist. Continue rinsing eye until arrival at hospital.
Ingestion:	Do not induce vomiting. Danger of penetration of the lungs (danger to breathing) when swallowed or vomited, due to gas evolution and foam formation. Only when patient fully conscious: Have the mouth rinsed with water. Have patient drink plenty of water in small sips. Keep patient warm and at rest.

Notify ambulance immediately. (keyword: acid burn).

Notes to physician: Therapy as for chemical burn.

Therapy as for chemical burn.

Following inhalation: Formation of a toxic lung edema is possible if product continues to be inhaled despite acute irritative effect (e.g. if it is not possible to leave danger area).

Prophylaxis of a toxic lung oedema with inhalative steroids (Dexamethasone aerosol dosing spray, f.ex auxiliosone).

If substance has been swallowed: Aspiration hazard! Risk of gaseous embolisms! In case of excessive strain on the stomach due to gas evolution, insert siphon tube. Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, suck away leftover substance.

Do not administer activated charcoal, since risk of release of large amounts of gas from hydrogen peroxide!

If substance has been swallowed: Aspiration hazard! Risk of gaseous embolisms! In case of excessive strain on the stomach due to gas evolution, insert siphon tube. Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, suck away leftover substance.

Do not administer activated charcoal, since risk of release of large amounts of gas from hydrogen peroxide!

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media	Fine spray of water, foam, dry powder.
Protective equipment	Protective equipment: In case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.
Specific hazards:	Contact with the following substances may cause inflammation: flammable substances. Involved in fire, it may decompose yielding oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely. Keep away from heat. If necessary: In case of fire, cool the containers that are at risk with water or dilute with water (flooding)
Further information:	Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away.

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Product causes chemical burns. Wear personal protective equipment: see section 8. Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away. Environmental precautions: Observe regulations on prevention of water pollution (collect, dam up, cover up).

Do not allow to run into water channels, surface water, or into the ground.

Methods for cleaning up: With small amounts: Dilute product with lots of water and rinse away. See section 12. or Absorb with liquid-binding

material, e.g. chemisorption, diatomaceous earth, universal binder.

Do not use: textiles, saw dust, combustible substances.

Pick up mechanically. Collect in suitable containers. Keep away from incompatible substances. Keep away from flammable substances. See section 10.

Clean contaminated surface thoroughly. Recommended cleaning agent: water. Dispose of absorbed material in accordance with the regulations. See section 13.

Additional advice: Make safe or remove all sources of ignition.

Isolate effective containers immediately, if possible and safe to do. Shut off leak, if possible and safe to do.

Place defective containers in waste receptacle (waste packaging receptacle) made of plastic (not metal).

Do not seal defective containers or waste receptacles airtight (danger of bursting due to product decomposition). Never return spilled product into its original containers for re-use. (Risk of decomposition).

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not breathe in vapours, aerosols, sprays.

For personal protection see section 8.

Handle in accordance with good industrial hygiene and safety practice. Avoid impurities and heat effect. Ensure there is good room ventilation. Change moistened and saturated work clothes immediately. Rinse contaminated or saturated clothing with water immediately. Never return spilled product into its original container for re-use (Risk of decomposition).

Provide for installation of emergency shower and eye bath.

Set up safety and operation procedures.

Avoid sun rays, heat, heat effect.

Keep away from sources of ignition – No smoking.

Keep away from flammable substances. See section 10.

To cool, spray closed containers with water spray jet. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely. See section 5.

Storage: Requirements for storage areas and containers:

Cool, well ventilated, clean and lockable.

Recommendation: Acid-proof floor.

Use adequate venting devices on all packages, containers and tanks and check correct operation periodically.

Do not confine product in un-vented vessels or between closed valves. Risk of overpressure and burst due to decomposition in confined spaces and pipes.

Check containers and tanks at regular intervals to detect any special changes such as pressure build-up (distension), damage, leakage.

Transport and store container in upright position only.

Do not empty container by means of pressure.

Always close container tightly after removal of product.

Do not keep the container sealed.

Ensure tightness at all times. Avoid leakage.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Only use containers which are specially permitted for: Peracetic acid and/or for transport, storage and tank installations only use suitable materials.

Suitable materials: Stainless steel (1.4571), polyethylene, polypropylene, polyvinyl chloride (PVC), polytetrafluoroethylene, glass, ceramics.

Unsuitable materials: Mild steel, iron, copper, brass, bronze, aluminium,

zinc.

Regularly verify the availability of water to deal with emergencies (for cooling, tank flooding, fire fighting) and check correct operation periodically.

For detailed information on design specifications for the construction of tank and dosing installations ask the producer for advice.

Do not store together with: alkalis, reductants, metallic salts (risk of decomposition).

Do not store together with: inflammable substances (risk of fire).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:

Hydrogen peroxide:

Control parameters:	1ppm	Time Weighted Average (TWA):
	1.4mg/m3	(EH40 WEL)
	2ppm	Short Term Exposure Limit (STEL):
	2.8mg/m3	(EH40 OES)

Acetic acid:

Control parameters:	10ppm	Time Weighted Average (TWA):
	25mg/m3	(EU ELV)
	15ppm	Short Term Exposure Limit (STEL):
	37mg/m3	(EH40 OES)

Other information:

Suitable measuring processes are:

Hydrogen peroxide: OSHA method ID 006 OSHA method VI-6

Acetic acid: NIOSH method 1603 OSHA method ID 186

Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery. See also section 7.

Personal protective equipment

Respiratory protection	If workplace exposure limit is exceeded apply Respiratory protective equipment. In case of larger quantities: If open handling is unavoidable: Wear respiratory protection. Suitable respiratory equipment: Respirator with ABEK-P2 combination filter. Respirator with yellow E-type filter, (Germany) If necessary: Local ventilation.
Hand protection	Wear protective gloves made of the following materials: PVC, neoprene or rubber.
Eye protection	Wear basket-shaped glasses.
Skin and body protection	Wear protective clothing, acid-proof. Suitable materials are: PVC, neoprene, nitrile rubber (NBR), rubber. Rubber or plastic boots.
Hygiene measures	Avoid contact with skin, eyes and clothing. Do not inhale vapour, aerosols, mist. Ensure there is good room ventilation. Avoid contaminating clothes with product. Change moistened and saturated work clothes immediately. Rinse contaminated or saturated clothing with water immediately. Any contaminated protective equipment is to be cleaned after use. No eating, drinking, smoking or snuffing tobacco at work. Wash face and /or hands before break and end of work. Preventive skin protection recommended. Use barrier cream regularly.
Protective measures	Handle in accordance with good industrial hygiene safety practice.

The work-place related airborne concentrations have to be kept below of the indicated exposure limits. If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification).

It should be defined in the work place in the form of a risk analysis according to directive 89/686/EEC and amendments.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid
Odour:	Stinging
<i>Safety data:</i>	
pH	ca. 0.3 (20°C)
Melting point/range:	ca. -28°C
Boiling point/range:	not applicable
Decomposition	>60°C
Flash point:	>96°C
Method:	DIN 51 584
Ignition temperature:	430°C
Method:	DIN 51 794
Auto inflammability:	not spontaneously flammable
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	ca. 27h Pa (20°C)
Density:	ca. 1.12 g/cm ³ (20°C)
Bulk density:	not applicable
Water solubility:	completely miscible
Partition coefficient (n-octanol/water): log Pow:-	1.25 (calculated)
Viscosity, dynamic:	not determined

Further information:

Miscibility in water:	completely miscible
Other information:	oxidising (according to EC Directive 67/548/EEC)

10. STABILITY AND REACTIVITY

Conditions to avoid:	Sun rays, heat, heat effect.
Material to avoid:	Impurities, decomposition catalysts, metal salts, alkalis, reducing substances, metals, nonferrous heavy metal, aluminium, zinc. Possible hazardous reaction: decomposition. Flammable materials. Possible hazardous reaction: Spontaneous ignition. Organic solvents. Possible hazardous reaction: Danger of explosion.
Hazardous decomposition products:	Decomposition products Under conditions of thermal decomposition: steam, oxygen.
Hazardous reactions:	Product is an oxidizing agent and reactive.
Stable under recommended storage conditions.	Product is supplied in stabilised form. Danger of decomposition if exposed to heat. When coming in contact with the product, impurities, decomposition catalysts, metallic salts, alkalis, reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD50 rat: 2,392 mg/kg Method: literature Test substance: Peracetic acid 10%
Acute dermal toxicity:	LD50 rat: 1,147 mg/kg Method: literature
Skin irritation:	rabbit corrosive

Eye irritation:	Method: OECD Test Guideline 404 rabbit highly irritative Method: literature
Sensitisation:	Test substance: Peracetic acid 14% Draize-test guinea pig: not sensitising Method: literature Test substance: Peracetic acid 14%
Repeated dose toxicity:	dermal guinea pig Testing period: 90 d Target/organ effect: Irritative effect, liver, lung irritation. Method: literature
Gentoxicity in vitro:	Micronucleus test mouse predominantly negative Method: literature Mutagenicity: In vitro examinations (micro-organisms, cell cultures) show overwhelmingly negative results, literature. Micronucleus test Mouse, oral negative Method: EEC B 12 Test substance: Peracetic acid 5%
Gentoxicity in vivo:	Unscheduled DNA synthesis – test (UDS) rat negative Method: literature Test substance: Peracetic acid 5%
Human experience:	Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)	
Biodegradability:	Readily biodegradable. Test substance: Peracetic acid 40% Exposure time: 28d Method: OECD TG 301E
Physico-chemical removability:	Method: literature Hydrolyses after 7 days by approx. 50%
Further information:	Under ambient conditions quick hydrolysis, reduction of decomposition occurs. The following substances are formed: oxygen, water, acetic acid. Acetic acid is easily biodegradable.
Behaviour in environmental compartments	
Bioaccumulation:	low Log Pow: see chapter 9.
Ecotoxicity effects	
Toxicity to fish	LC50 Pleuronectes platessa: 89.1 mg/l / 96 h Test substance: Peracetic acid 12% Method: literature NOEC Pleuronectes platessa: 56 mg/l / 96 h Test substance: Peracetic acid 12% Method: literature
Toxicity to daphnia:	EC50 Daphnia magna: 3.3 mg/l / 48 h Test substance: Peracetic acid 15% Method: OECD TG 202 NOEC Daphnia magna: 1mg/l / 48 h Test substance: Peracetic acid 15% Method: OECD TG 202
Toxicity to algae:	IC 50 selenastrum capricornutum: ca. 0.18mg/l/120 h Test substance: Peracetic acid 5% Method: US-EPA-method

Chronic	S14	Keep away from impurities, decomposition catalysts, alkalis, reducing agents, flammable substances.
NOEC selenastrum capricornutum: 0.12mg/l / 120 htest substance:		
Peracetic acid 5%	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
Method: US-EPA-method		
Chronic		
Toxicity to bacteria:	EC100 Pseudomonas aeruginosa: 9.9mg / l / 0.5 h	
Test substance: Peracetic acid 36%	S45	In case of accident or if you feel unwell, seek medical advice immediately (show labels where possible).
Method: literature		
The product is slightly biodegradable in sewage works when greatly diluted.		
Local activated sludge	S1/2	Keep locked up and out of the reach of children.
Test substance: Peracetic acid, greatly diluted easily biodegradable.		
Further information on ecology		National legislation
AOX		Major Accident Hazard: 82/501/EEG
The product does not contain any organically bonded halogen.		Legislation: listing: Appendix III, Part 2 and/or. Appendix IV.
Further information: Does not contain any heavy metals and compounds from EC directive 76/464: e.g. arsenic, lead, cadmium, Mercury, organic compounds organic halogen compounds		The product is subject to the EC directive 82/501/EEC and amendments (see regulations concerning malfunctions).
		Employment restriction: Observe national regulations.
		Prohibited Chemicals Ordinance: Observe national regulations
		Other regulations: Other countries: observe the national regulations.

13. TRANSPORT INFORMATION

Land Transport ADR/RID	5.1(8)
Class:	5.1
UN-No:	3149
Item:	1
Letter:	b
Secondary hazard	8
Orange warning plate	58 / 3149
Description of goods:Hydrogen peroxide and peroxyacetic acid mixture, stabilized (Technical name)	
<i>Sea Transport IMDG-Code</i>	
Class:	5.1
UN-N°:	3149
Packaging Group:	11
Secondary hazard	8
EmS:	F-H, S-Q
Proper technical name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Air Transport ICAO-TI/IATA-DGR

Class:	5.1
UN-N°:	3149
Packaging Group:	11
Proper technical name	HYDROGEN PEROXIDE
(Proper shipping name)	ANDPEROXYACETIC ACID MIXTURE, STABILIZED

Loading Instructions/Remarks

IATA_C	Drill 5C
IATA_P	Drill 5
IMDG	Protect from heat.
Separate from metal powders and permanganates.	

14. REGULATORY INFORMATION

Labelling according to EC Directive:

Hazard-defining component(s)	Peracetic acid
Symbol:	C
	0
R-phrases)	R34
	R7
S-phrases(s):	S 3/7
	Corrosive
	Oxidising
	Causes burns
	May cause fire.
	Keep container tightly closed in a cool place.

15. OTHER INFORMATION

Registration

Europe (EINECS/ELINCS)	listed/registered	
Switzerland	listed/registered	
USA (TSCA)	listed/registered	
Risk phrase (R phrase) texts		
Peracetic acid	R7	May cause fire.
	R10	Flammable.
	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R35	Causes severe burns.
	R50	Very toxic to aquatic organisms.
Hydrogen peroxide	R8	Contact with combustible material may cause fire
	R34	Causes burns.
Acetic acid	R10	Flammable.
	R35	Causes severe burns.

Further Information

The information contained in this MSDS, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet