

# Oxi-Acid

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 22 February 2012

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Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Oxi-Acid

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Disinfection of milking equipment

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

GEA Farm Technologies (UK) Ltd  
Wylze Works, Watery Lane, Bishopstrow, Warminster, Wiltshire BA12 9HT England

T: +44 (0) 1985 216 444

F: +44 (0) 1985 216 692

E-mail: info.agroserve@geagroup.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 870 190 6777 (24 hours, 7 days)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Ox. Liq. 2 H272  
Org. Perox. G  
Skin Corr. 1A H314  
STOT SE 3 H335

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8  
Xn; R22  
C; R34

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS03

GHS05

GHS07

Signal word (CLP) :

Danger

Hazardous ingredients :

Hydrogen peroxide, Acetic acid, Peracetic acid

Hazard statements (CLP) :

H272 - May intensify fire; oxidiser  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P221 - Take any precaution to avoid mixing with combustible materials  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Hydrogen peroxide	(CAS No) 7722-84-1 (EC No.) 231-765-0 (EC index No.) 008-003-00-9	10 - 30	R5 O; R8 C; R35 Xn; R20/22
Acetic acid	(CAS No) 64-19-7 (EC No.) 200-580-7 (EC index No.) 607-002-00-6	5 - 15	R10 C; R35
Peracetic acid	(CAS No) 79-21-0 (EC No.) 201-186-8 (EC index No.) 607-094-00-8	1 - 10	R10 O; R7 Xn; R20/21/22 C; R35 N; R50

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide	(CAS No) 7722-84-1 (EC No.) 231-765-0 (EC index No.) 008-003-00-9	10 - 30	Ox. Liq. 1, H271 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Acetic acid	(CAS No) 64-19-7 (EC No.) 200-580-7 (EC index No.) 607-002-00-6	5 - 15	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Peracetic acid	(CAS No) 79-21-0 (EC No.) 201-186-8 (EC index No.) 607-094-00-8	1 - 10	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 1, H400

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate medical attention.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or shower. Obtain immediate medical attention.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. Do not give an unconscious person anything to drink. Obtain immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: Causes burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Corrosive. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray.  
Unsuitable extinguishing media : Do not use water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. May intensify fire; oxidiser. Contact with combustible material may cause fire.  
Hazardous decomposition products in case of fire : Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.  
Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ensure adequate ventilation.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.  
Emergency procedures : Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Small spillages may be neutralised using soda ash. Wash spill area with soapy water. Washings must be prevented from entering surface water drains.

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing, gloves and eye or face protection.  
Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in the original container. Store away from. Incompatible materials. Heat sources. Direct sunlight.  
Incompatible materials : Alkalis. Hypochlorite solutions. Combustible materials. Metals. Carbonates.

### 7.3. Specific end use(s)

Disinfection of milking equipment.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Hydrogen peroxide (7722-84-1)		
United Kingdom	Local name	Hydrogen peroxide
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1.4 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2.8 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	2 ppm

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### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear rubber gloves. Standard EN 374 - Protective gloves against chemicals. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.
Eye protection	: Chemical goggles or face shield. Standard EN 166 - Personal eye-protection.
Skin and body protection	: Acid-resistant clothing. Rubber boots.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Standard EN 149 – Respiratory protective devices.
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: White.
Odour	: Pungent. vinegar odour.
Odour threshold	: No data available
pH	: < 1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: ≈ -30 °C
Boiling point	: No data available
Flash point	: Not flammable
Auto-ignition temperature	: No data available
Decomposition temperature	: > 60 °C SADT
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.1 (Water = 1)
Solubility	: Miscible with water.
Log Pow	: -1.25
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Alkalis. Hypochlorite solutions. Sulfides. Cyanates. Metals. Carbonates. May intensify fire; oxidiser. Contact with combustible material may cause fire.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts with most metals liberating hydrogen, an extremely flammable gas.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Alkalis. Hypochlorite solutions. combustible materials. metals. Carbonates.

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### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
Based on available data, the classification criteria are not met

Hydrogen peroxide (7722-84-1)	
LD50 oral rat	801 mg/kg
LD50 dermal rat	4060 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	2 mg/l/4h

Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg
LC50 inhalation rat (mg/l)	11.4 mg/l/4h

Peracetic acid (79-21-0)	
LD50 oral rat	1656 mg/kg
LD50 dermal rabbit	1040 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: < 1

Serious eye damage/irritation : Serious eye damage, category 1, implicit  
pH: < 1

Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Causes severe skin burns and eye damage. Inhalation of vapours may cause respiratory irritation. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Not classified, however the product is likely to be hazardous to aquatic life due to extreme pH. Acidity may be reduced by natural water hardness.

Hydrogen peroxide (7722-84-1)	
LC50 fish	10 - 32 mg/l 96 h - <i>Oncorhynchus mykiss</i>
EC50 Daphnia	18 - 32 mg/l 48 h - <i>Daphnia magna</i>
ErC50 (algae)	2.5 mg/l 72 h - <i>Chlorella vulgaris</i>

Acetic acid (64-19-7)	
LC50 fish	75 mg/l 96 h - <i>Lepomis macrochirus</i>
EC50 Daphnia	65 mg/l 48 h - <i>Daphnia magna</i>

### 12.2. Persistence and degradability

Oxi-Acid	
Persistence and degradability	Readily biodegradable.

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### 12.3. Bioaccumulative potential

Oxi-Acid	
Log Pow	-1.25
Bioaccumulative potential	No bioaccumulation.

### 12.4. Mobility in soil

Oxi-Acid	
Ecology - soil	Miscible with water.

### 12.5. Results of PBT and vPvB assessment

Oxi-Acid	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

: Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Additional information	: Handle empty containers with care.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR)	: 3149
UN-No.(IATA)	: 3149
UN-No. (IMDG)	: 3149

### 14.2. UN proper shipping name

Proper Shipping Name (ADR/RID)	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
Proper Shipping Name (IATA)	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
Proper Shipping Name (IMDG)	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
	:
Transport document description (ADR)	: UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II

### 14.3. Transport hazard class(es)

Class (ADR/RID)	: 5.1
Class (IATA)	: 5.1
Class (IMDG)	: 5.1
Subsidiary risks (ADR)	: 8
Subsidiary risk (IMDG)	: 8
Hazard labels (ADR/RID)	: 5.1, 8



Division (IATA)	: 5.1
Hazard labels (IATA)	: 5.1, 8



Danger labels (IMDG)	: 5.1, 8
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### 14.4. Packing group

Packing group (ADR/RID) : II  
Packing group (IATA) : II  
Packing group (IMDG) : II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Oxi-Acid
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Oxi-Acid

Contains no substance on the REACH candidate list

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Abbreviations and acronyms : SADT (Self-Accelerating Decomposition Temperature).

Other information : None.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. D	Organic Peroxides, Type D
Org. Perox. G	Organic Peroxides, Type G
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H242	Heating may cause a fire
H271	May cause fire or explosion; strong oxidiser
H272	May intensify fire; oxidiser

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H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R35	Causes severe burns
R5	Heating may cause an explosion
R50	Very toxic to aquatic organisms
R7	May cause fire
R8	Contact with combustible material may cause fire
C	Corrosive
N	Dangerous for the environment
O	Oxidising
Xn	Harmful

### NCEC SDS EU (REACH ANNEX II)

*The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.*