

## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	Digicur Footbath
Product Code(s)	Not applicable
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified use(s)	Foot bathing of cattle and sheep Product is for professional use only. Must not be used by persons under the age of 18, except when adult supervision is available. Do not mix with other chemical products.
Uses advised against	
<b>1.3 Details of the supplier of the Safety Data Sheet</b>	
Company Identification	Progiene Dairy Hygiene A division of Rumenco, Rumenco Limited, Stretton House, Derby Road, Burton on Trent, Staffordshire DE13 0DW +44 (0) 1283 524240 info@progiene-dairy.com
Telephone	
E-Mail (competent person)	
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 (0) 1283 524240 (09.00 – 17.00 GMT Monday - Friday)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Acute Tox. (Category 3): Toxic if swallowed.  
 Skin Corr. (Category 1B): Causes severe skin burns and eye damage.  
 Skin Sens. (Category 1): May cause an allergic skin reaction.  
 STOT SE 3: May cause respiratory irritation.  
 Aquatic Acute (Category 1): Very toxic to aquatic life.

### 2.2 Label elements



#### 2.2.1 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Signal word(s)

Danger

Hazard statement(s)

H301: Toxic if swallowed.  
 H314 : Causes severe skin burns and eye damage.  
 H317 : May cause an allergic skin reaction.  
 H332 : Harmful if inhaled.  
 H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H400: Very toxic to aquatic life.

Precautionary statement(s)

P102: Keep out of reach of children.  
 P201 : Obtain special instructions before use.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264: Wash skin thoroughly after handling.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 P310 : Immediately call a POISON CENTER/doctor.  
 P363: Wash contaminated clothing before reuse.  
 P501: Dispose of contents/container to: hazardous waste site

- 2.3 Other hazards** Do not mix with other chemical products.
- 2.4 Additional Information** None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Glutaraldehyde	12 - 20	111-30-8	203-856-5	01-2119455549-26	Acute Tox. 3: H301 Acute Tox. 3: H331 Skin Corr. 3: H314 Skin Sens. 1: H317 STOT SE 3: H335 Aquatic Acute 1: H400
Chlorhexidine digluconate	0.1 - 1	18472-51-0	242-354-0	Not available	Acute Tox. 4: H302 Eye Dam.1: H318 Aquatic Acute 1:H400

### 3.3 Additional Information

For full text of H/P phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Remove persons affected by vapour to fresh air.  
For those providing assistance, avoid exposure to yourself or others.  
If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.  
If breathing is irregular or has stopped, administer artificial respiration.

Skin Contact

Remove contaminated clothing and shoes immediately and wash affected skin with water.  
Wash contaminated clothing before reuse.

Eye Contact

Eyes should be washed with plenty of water for at least 30 minutes. Get immediate medical attention.

Ingestion

Wash out mouth with water. Do not induce vomiting. Get immediate medical attention.

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

Aside from the information found under Description of First Aid Measures (above) and indicators of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

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

Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Glutaraldehyde may transiently worsen reversible airways obstruction including asthma or reactive airways disease. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/oesophageal control if lavage is done. Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor, or going for treatment. Excessive exposure may aggravate pre-existing asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

## SECTION 5: FIRE-FIGHTING MEASURES

- |  |  |
|--|--|
| <b>5.1 Extinguishing Media</b>                                   | .  |
| Suitable Extinguishing Media                                     | Extinguish with water fog, dry chemical, foam, or carbon dioxide.  |
| Unsuitable Extinguishing Media                                   | Straight streams of water  |
| <b>5.2 Special hazards arising from the substance or mixture</b> | Will burn if involved in fire and give off noxious fumes including carbon oxides.  |
| <b>5.3 Advice for fire-fighters</b>                              | Evacuate area. If a leak or a spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- |  |   |
|--|---|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Avoid contact with spilled material. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.  |
| <b>6.2 Environmental precautions</b>   | Do not allow to enter drains, sewers or watercourses.   |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Adsorb spillages onto sand, earth or any suitable adsorbent material. Neutralise to hexamine if necessary with 5% ammonia.  |
| <b>6.4 Reference to other sections</b>   | Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.  |
| <b>6.5 Additional Information</b>  | Avoid making contact with spilled material, glutaraldehyde will be absorbed by most shoes. Always wear the correct protective equipment, consisting of splash-proof mono-goggles, or both safety glasses with side shields and a wraparound full-face shield, appropriate gloves and protective clothing. A self-contained breathing apparatus or respirator and absorbents may be necessary, depending on the size of the spill and the adequacy of ventilation. Small spills: Wear the correct protective equipment and cover the liquid with absorbent material. Collect and seal the material and the dirt that has absorbed the spilled material in polyethylene bags and place in a drum for transit to an approved disposal site. Rinse away the remaining spilled material with water to reduce odour, and discharge the rinsate into a municipal or industrial sewer. Large spills: In case of nasal and respiratory irritation, vacate the room immediately. Personnel cleaning up should be trained and equipped with a self-contained breathing apparatus, or an officially approved or certified full-face respirator equipped with an organic vapour cartridge, gloves, and clothing impervious to glutaraldehyde, including rubber boots or shoe protection. Deactivate with sodium bisulphite (2-3 parts (by weight) per part of active substance glutaraldehyde), collect the neutralized liquid and place in a drum for transit to an approved disposal site. |

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin. Avoid breathing fumes. Avoid ingestion. Avoid inhalation of vapours. Use only with adequate ventilation. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage Temperature Keep out of direct sunlight. Store in a well ventilated place and always secure lid.
- Storage Life 1 year.
- Incompatible materials Do not store in aluminium, carbon steel, copper, mild steel or iron.
- 7.3 Specific end use(s)** Foot bathing of cattle and sheep.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**8.1.1 Occupational Exposure Limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Glutaraldehyde	111-30-8	0.05	0.2	0.05	0.2	EH40

- 8.1.2 Biological limit value** Not established
- 8.1.3 PNECs and DNELs** Not established
- 8.2.1 Appropriate engineering controls** Use in well ventilated area. If user operations generate fumes, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below the occupational exposure limits.

**8.2.2 Personal protection equipment**

Eye/face protection



Wear chemical safety glasses with side shields, or splash-proof goggles

Skin protection (Hand protection/ Other)



Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet –style gloves. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

Respiratory protection



If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations

Thermal hazards

None Known

**8.2.3 Environmental Exposure Controls**

See sections 6,7,12,13

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Clear
Odour	Fruity, aldehydic.
Odour Threshold (ppm)	No data available
pH (Value)	4.0 Typical
Melting Point (°C) / Freezing Point (°C)	FP is calculated at <0.
Boiling point/boiling range (°C):	No data available
Flash Point (°C)	No data available
Evaporation rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Explosive limit ranges.	No data available
Vapour Pressure (mm Hg)	No data available 0.3 at 20°C
Vapour Density (Air=1)	No data available
Density (g/ml)	1.03
Solubility (Water)	Miscible in all proportions
Solubility (Other)	No data available
Partition Coefficient (n-Octanol/water)	No data available
Auto Ignition Temperature (°C)	No data available
Decomposition Temperature (°C)	No data available
Viscosity (mPa.s)	No data available
Explosive properties	No data available
Oxidising properties	No data available

**9.2 Other information**

None

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No dangerous reactions known under normal conditions of use.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	See 10.5
<b>10.4 Conditions to avoid</b>	Active ingredient decomposes at elevated temperatures.
<b>10.5 Incompatible materials</b>	Avoid contact with: Amines, Ammonia, Strong acids, Strong bases, Strong oxidisers, and metals such as aluminium, copper, carbon steel, iron and mild steel.
<b>10.6 Hazardous Decomposition Product(s)</b>	Hazardous decomposition products are not expected to form during normal storage.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2 Mixtures

Acute toxicity	<p>Inhalation: May cause severe irritation to respiratory system and mucous membranes. May cause respiratory sensitisation.</p> <p>Skin: Causes severe burns, and repeated/prolonged contact may cause dermatitis. May cause skin sensitization.</p> <p>Eyes: Causes severe burns. If treated rapidly, permanent damage may be avoided.</p> <p>Ingestion: May cause severe burns to mucous membranes and digestive tract. May cause nausea, and stomach pains.</p>
Irritation	<p>Vapour may cause severe irritation of the upper respiratory tract (nose and throat). Vapour from heated material may cause serious adverse effects, even death. Case reports and medical surveys link asthma and respiratory irritation to glutaraldehyde exposure, primarily in medical personnel. Asthma-like symptoms may occur in people prone to respiratory disorders or other allergies. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.</p> <p>As product: The LC50 has not been determined.</p> <p>May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Vapour may cause eye irritation experienced as mild discomfort and redness.</p>
Corrosivity	Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.



Sensitisation	<p>Skin contact may cause an allergic skin reaction in a small proportion of individuals. Based on information for component(s): Has caused allergic skin reactions when tested in guinea pigs. Has demonstrated the potential for contact allergy in mice.</p> <p>May cause allergic respiratory response in a small proportion of individuals</p>
Repeated dose toxicity	No data available.
Carcinogenicity	<p>In a NTP chronic 2-year inhalation study on glutaraldehyde, no carcinogenicity was seen in rats or in mice. An increase in large granular lymphocytes in Fischer rats dosed with glutaraldehyde for two years was random or a secondary carcinogenic effect due to a modifying influence on the occurrence of this common neoplasm in this rat strain.</p>
Mutagenicity	No data available.
Toxicity for reproduction	<p><b>Reproductive Toxicity</b> For glutaraldehyde: In animal studies, did not interfere with reproduction.</p> <p><b>Genetic Toxicology</b> For glutaraldehyde: In vitro genetic toxicity studies were negative in some cases and positive in other cases. For glutaraldehyde: Animal genetic toxicity studies were predominantly negative.</p>
<b>11.2 Other information</b>	None


## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<p>There is no information regarding the mixture but one of the components, Glutaraldehyde, has been assessed as follows:</p> <p>LC50 Oncorhynchus mykiss, 96h, 25mg/l          LC50 Lepomis macrochis, 96h, 13mg/l          LC50, Daphnia magna, 48h, 3.5mg/l</p>
<b>12.2 Persistence and degradability</b>	Readily biodegradable.
<b>12.3 Bioaccumulative potential</b>	Not expected to bioaccumulate. Partition coefficient (Log KoW) glutaraldehyde -0.333.
<b>12.4 Mobility in soil</b>	Potential for mobility in soil is high. Volatilization from natural bodies of water or moist soil is not expected.
<b>12.5 Results of PBT and VPVB assessment</b>	No PBT or VPVB Components
<b>12.6 Other adverse effects</b>	None

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
- Handle in accordance with good industrial hygiene and safety practice. The product comes under European Waste Codes HE, H8 and H11, therefore waste is considered hazardous waste if it contains  $\geq 1\%$  product. Waste European Catalogue Index No 07 01 99, if not mixed with other waste.  
Disposal is usually carried out by a licensed waste material processor: stack gases may need to be scrubbed. Contaminated packaging should be disposed of as hazardous waste, according to local authority guidelines.
- 13.2 Additional Information**
- None

## SECTION 14: TRANSPORT INFORMATION

- 14.1 Land transport (ADR/RID)**
- |                              |  |
|------------------------------|--|
| UN number                    | 3265   |
| Proper Shipping Name         | Corrosive Liquid, Acidic, Organic, NOS (Contains Gluteral)                         |
| Transport hazard class(es)   | 8  |
| Packing Group                | III  |
| Hazard label(s)              |  |
| Environmental hazards        | No   |
| Special precautions for user | None   |
- 14.2 Sea transport (IMDG)**
- |                              |  |
|------------------------------|--|
| UN number                    | 3265   |
| Proper Shipping Name         | Corrosive Liquid, Acidic, Organic, NOS (Contains Gluteral) |
| Transport hazard class(es)   | 8  |
| Packing Group                | III  |
| Marine Pollutant             | No   |
| Special precautions for user | None   |
- 14.3 Air transport (ICAO/IATA)**
- |                              |  |
|------------------------------|--|
| UN number                    | 3265   |
| Proper Shipping Name         | Corrosive Liquid, Acidic, Organic, NOS (Contains Gluteral) |
| Transport hazard class(es)   | 8  |
| Packing Group                | III  |
| Environmental hazards        | No   |
| Special precautions for user | None   |
- 14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
- Not applicable

## SECTION 15: REGULATORY INFORMATION

<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture</b>	1907/2006 – REACH 1272/2008 – CLP 648/2004/EC-Detergents Directive Control of Substance Hazardous to Health (COSHH) Dangerous Substances and Explosive Atmosphere regulations (DSEAR)
<b>15.1.1</b>	<b>EU regulations</b>	
	Authorisations and/or restrictions on use	Refer to EU regulation for details of any actions or restrictions by the above regulations or directives
<b>15.1.2</b>	<b>National regulations</b>	Refer to national regulation for details of any actions or restrictions by the above regulations or directives
<b>15.2</b>	<b>Chemical Safety Assessment</b>	A Chemical Safety Assessment has not been carried out for this mixture.

## SECTION 16: OTHER INFORMATION

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration
RCP	Reciprocal Calculation Procedure
NOEC	No Observed Effect Concentration

**References:** Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate

### Hazard statement(s) and Precautionary statement(s)

H301: Toxic if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H331 : Toxic if inhaled.  
H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 ; May cause respiratory irritation  
H400: Very toxic to aquatic life.

# PROGIENE

dairy hygiene

P102: Keep out of reach of children.  
P201 : Obtain special instructions before use.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash skin thoroughly after handling.  
P271 : Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P310 : Immediately call a POISON CENTER/doctor.  
P363: Wash contaminated clothing before reuse.  
P501: Dispose of contents/container to: hazardous waste site

## Additional Information

Revision 1.1 was issued on 26 September 2014 to reflect a reformulation of the product.

Revision 1.2 was issued on 30 January 2018 to update contact details and remove redundant CHIP data.

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Progiene Dairy Hygiene, a division of Rumenco Limited, based on information supplied by the formulators of the product and is believed to be accurate and given in good faith, but it is for the users to satisfy themselves of the suitability of the product for their own particular purpose. d5 Consulting Limited and Progiene Dairy Hygiene, a division of Rumenco Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. Progiene Dairy hygiene, Rumenco Limited and d5 Consulting Limited give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.