



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

1.1 Product identifier

Product Name	Dual Protect
Product Code(s)	Not applicable

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

Identified use(s)	A specially formulated Iodine and Glycolic Acid product for use as an aid in milking udder hygiene on livestock. Product is for professional use only. Must not be used by persons under the age of 18, except when adult supervision is available
Uses advised against	No data available.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification	Progiene Dairy Hygiene A division of Rumenco, Rumenco Limited, Stretton House, Derby Road, Burton on Trent, Staffordshire DE13 0DW
Telephone	+44 (0) 1283 524240
E-Mail (competent person)	info@progiene-dairy.com

1.4 Emergency telephone number

Emergency Phone No.	+44 (0) 1283 524240 (09.00 – 17.00 GMT Monday - Friday)
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Eye Irritation (Category 2). Causes serious eye irritation.
2.2	Label elements	
2.2.1	Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Hazard Pictogram	
	Signal word(s)	Warning
	Hazard statement(s)	H319: Causes serious eye irritation.
	Precautionary statement(s)	P102: Keep out of reach of children. P261: Avoid breathing vapours/spray. P264: Wash skin thoroughly after handling. 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. P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P501: Dispose of contents/container to: hazardous waste site
2.3	Other hazards	None stated
2.4	Additional Information	None stated

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)
Alcohol Ethoxylate	<3	160901-19-9	931-954-4	N/A	Acute Tox. 4: H302 Eye Dam. 1: H318
Glycolic Acid	< 1	79-14-1	201-180-5	N/A	Acute Tox. 4: H332 Skin Corr. 1 : H314
Iodine	<1	7553-56-2	231-442-4	01-2119457892-27	Acute Tox. 4 : H302 Acute Tox. 4: H312 Acute Tox. 4: H332 Skin Irrit. 2 : H315 Eye Irrit. 2 : H319 STOT SE 3 : H335 STOT RE 1 : H372

					Aquatic Acute 1: H400
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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.
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 15 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

Inhalation – may cause irritation of nose and throat.
Ingestion – may cause irritation and nausea.
Skin contact – Prolonged or repeated contact may cause dryness or cracking to the skin.
Eye contact – irritation of eyes and mucous membranes may occur.

4.3 Indication of immediate medical attention and special treatment needed

No data available. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	Extinguish with dry chemical, foam, water spray, or carbon dioxide.
Unsuitable Extinguishing Media	Straight streams of water

- 5.2 Special hazards arising from the substance or mixture** Toxic fumes may be released.
- 5.3 Advice for fire-fighters** 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

- 6.1 Personal precautions, protective equipment and emergency procedures** 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.
- 6.2 Environmental precautions** Do not allow to enter drains, sewers or watercourses.
- 6.3 Methods and material for containment and cleaning up** Adsorb spillages onto sand, earth or any suitable adsorbent material.
- 6.4 Reference to other sections** Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.
- 6.5 Additional Information** None stated

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 Store between 0°C to 25°C. Keep out of direct sunlight.
- Storage Life 1 year.
- Incompatible materials Alkalis, metals, and oxidising agents such as Red Label Hypochlorite.
- 7.3 Specific end use(s)** A specially formulated Iodine and Glycolic Acid product for use as an aid in milking udder hygiene on livestock.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note:
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Iodine	7553-56-2	-	-	0.1	1.1	EH40
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8.1.2 Biological limit value

Not established

8.1.3 PNECs and DNELs

DNEL (Workers)

Acute – systematic effects, inhalation: 9.2 mg/m³ Glycolic Acid

Acute – local effects, inhalation: 9.2 mg/m³ Glycolic Acid

Long Term – systematic effects, dermal: 57.69 mg/mg³ Glycolic Acid

Long Term – systematic effects, inhalation: 10.56 mg/m³ Glycolic Acid

Long Term: - local effects, inhalation: 1.53 mg/m³ Glycolic Acid

DNEL (General Population)

Acute – systematic effects, dermal: 2.3 mg/m³ Glycolic Acid

Acute – local effects, inhalation: 2.3 mg/m³ Glycolic Acid

Long Term – systematic effects, oral: 0.75 mg/kg bodyweight/day Glycolic Acid

Long Term – systematic effects, inhalation: 2.6 mg/m³ Glycolic Acid

Long Term: - systematic effects, dermal: 28.85 mg/kg bodyweight/day Glycolic Acid

PNEC (Water)

PNEC aqua (fresh water): 0.0312 mg/l Glycolic Acid

PNEC aqua (marine water): 0.0031 mg/l Glycolic Acid

PNEC aqua (intermittent, fresh water: 0.312 mg/l Glycolic Acid

PNEC (Sediment)

PNEC sediment (fresh water): 0.115 mg/kg dwt Glycolic Acid

PNEC sediment (marine water): 0.0115 mg/kg dwt Glycolic Acid

PNEC (Soil)

PNEC soil: 0.007 mg/kg dwt Glycolic Acid

PNEC oral

PNEC oral (secondary poisoning): 16.66 mg/kg food Glycolic Acid

8.2.1 Appropriate engineering controls

Not established

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

Respiratory protection



recommended. If contact with forearms is likely, wear gauntlet –style gloves. CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

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	Dark Brown
Odour	Iodine
Odour Threshold (ppm)	No data available
pH (Value)	3.0 – 4.0
Melting Point (°C) / Freezing Point (°C)	No data available for melting point; Freezing <0
Boiling point/boiling range (°C):	100
Flash Point (°C)	>80
Evaporation rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	>100°C
Explosive limit ranges.	No data available
Vapour Pressure (mm Hg)	No data available
Vapour Density (Air = 1)	No data available

Density (g/ml)	1.010 – 1.040
Solubility (Water)	Soluble
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)	<10cP
Explosive properties	No data available
Oxidising properties	No data available
9.2 Other information	None stated

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Reacts with strong alkalis.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	See 10.5
10.4 Conditions to avoid	Direct sunlight. Excessive heat and cold.
10.5 Incompatible materials	None identified.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products identified.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	There is no information regarding the mixture but one of the components, Iodine, has been assessed as follows: LC50 Inhalation. Dusts and mists Rat >4.588 mg/l 4 hours LD50 Dermal Rabbit 1425 mg/kg LD50 Oral Rabbit 14000 mg/kg
Irritation	Causes serious eye irritation. pH 3.0 – 4.0
Corrosivity	pH 3.0 – 4.0
Sensitisation	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available

Mutagenicity	No data available
Toxicity for reproduction	No data available
11.2 Other information	May be harmful if inhaled.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	There is no information regarding the mixture but one of the components, Iodine, has been assessed as follows: Acute EC50 1 mg/l Aquatic plants 72 hours
12.2 Persistence and degradability	The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC.
12.3 Bioaccumulative potential	Not expected to bioaccumulate..
12.4 Mobility in soil	No data available
12.5 Results of PBT and VPVB assessment	No PBT or VPVB Components
12.6 Other adverse effects	None stated

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
13.2 Additional Information	None stated

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)	
UN number	Not applicable.
Proper Shipping Name	Not applicable
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Hazard Label(s)	None
Environmental hazards	No

Special precautions for user	None stated
14.2 Sea transport (IMDG)	
UN number	Not applicable.
Proper Shipping Name	Not applicable
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Hazard Label(s)	None
Marine Pollutant	No
Special precautions for user	None stated
14.3 Air transport (ICAO/IATA)	
UN number	Not applicable.
Proper Shipping Name	Not applicable
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Hazard Label(s)	None
Environmental hazards	No
Special precautions for user	None stated
14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture	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)
15.1.1 EU regulations	
Authorisations and/or restrictions on use	Refer to EU regulation for details of any actions or restrictions by the above regulations or directives.
15.1.2 National regulations	Refer to national regulation for details of any actions or restrictions by the above regulations or directives.
15.2 Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out for this mixture.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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

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)

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe burns and eye damage
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H372: Causes damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

P102: Keep out of reach of children.
P261: Avoid breathing vapours/spray.
P264: Wash skin thoroughly after handling.
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.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501: Dispose of contents/container to: hazardous waste site.

Additional Information

Revision 1.1 was issued on 4 August 2014 to re-classify Glycerol.
Revision 1.2 was issued on 29 January 2018 to re-classify the hazards presented by the ingredients in Section 3.
Revision 1.3 was issued on 18 November 2022 to re-classify the hazards due to a re-formulation of the product.
Revision 1.3 was issued on 4 June 2023 to update Transport Information and Hazard Information

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.