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dairy hygiene

SAFETY DATA SHEET

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

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

1.1 Product identifier	
Product Name	T-HEXX Dry-E Blue
Product Code(s)	Not applicable
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	External teat sealant used for the dry and the pre-calving period of the dairy cow 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	
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)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Flammable Liquid (Category 2). Highly flammable liquid and vapour. Acute Toxicity, Oral (Category 3). Toxic if swallowed. Eye Irritation (Category 2). Causes serious eye irritation. Acute Toxicity, Inhalation (Category 3). Toxic if inhaled. Acute Toxicity, Dermal (Category 3). Toxic in contact with skin. Specific Target Organ Toxicity - single exposure (Category 2). May cause damage to organs. Specific Target Organ Toxicity - single exposure (Category 3). May cause drowsiness or dizziness.

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2.2 Label elements
2.2.1 Label elements
Hazard Pictograms

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



Signal word(s)
Hazard statement(s)

Danger

H225 : Highly flammable liquid and vapour.
H301 : Toxic if swallowed.
H311 : Toxic in contact with skin.
H319 : Causes serious eye irritation.
H331 : Toxic if inhaled.
H336 : May cause drowsiness or dizziness
H371 : May cause damage to organs.

Precautionary statement(s)

P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+310: **IF SWALLOWED:** Immediately call a POISON CENTER/doctor.
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.
Do not mix with other chemical products.

2.3 Other hazards
2.4 Additional Information

None

3. 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)
Ethanol	28 - 31	64-17-5	200-578-6	01-2119457610-43	Flam. Liq. 2, H225
Methyl Ethyl Ketone	18 - 20	78-93-3	201-159-0	01-2119457290-43	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methanol	9 - 11	67-56-1	200-659-6	01-2119433307-20	Flam Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3, (Inhalation), H331 STOT SE 1 : H370
Ethyl Acetate	7 - 9	141-78-6	205-500-4	01-2119475103-46	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

3.3 Additional Information

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

4. 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 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

May cause contact dermatitis reaction by skin contact. Can cause skin burns. Severe eye irritation with permanent damage burns to throat, nose and gastrointestinal tract and severe irritation of the respiratory tract.

Classified as a Category 2 carcinogen under 1272/2008 (CLP) and as Category 3 under CHIP.

4.3 Indication of immediate medical attention and special treatment needed

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

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5. SECTION 5: FIRE-FIGHTING MEASURES

- | | |
|---|--|
| <p>5.1 Extinguishing Media
Suitable Extinguishing Media</p> | Water spray, dry chemical, foam, alcohol resistant foam or carbon dioxide. |
| | High volume water jet |
| <p>5.2 Special hazards arising from the substance or mixture</p> | Hazardous decomposition products are not expected to form during normal storage. When heated and in case of fire, Carbon monoxide and Carbon dioxide (CO ₂) could be formed. |
| <p>5.3 Advice for fire-fighters</p> | 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. |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

7. SECTION 7: HANDLING AND STORAGE

- | | |
|--|--|
| <p>7.1 Precautions for safe handling</p> | 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. |
| <p>7.2 Conditions for safe storage, including any incompatibilities</p> | |
| <p>Storage Temperature</p> | Keep tightly closed in a dry and cool place. Keep in a well ventilated place. Keep away from heat. Keep away from direct sunlight. |
| <p>Storage Life</p> | No data available. |
| <p>Incompatible materials</p> | Incompatible with oxidizing agents. |
| <p>7.3 Specific end use(s)</p> | External teat sealant used for the dry and the pre-calving period of the dairy cow. |

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8. 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 ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Methanol	67-56-1	200	266	250	333	EH40
Ethanol	64-17-5	1000	1920	-	-	EH40
Ethyl Acetate	141-78-6	200	-	400	-	EH40
Methyl Ethyl Ketone	78-93-3	200	600	300	899	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. 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

Respiratory protection



Thermal hazards

None known

8.2.3 Environmental Exposure Controls

See sections 6,7,12,13

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid (Thixotropic)
Colour	Blue
Odour	Alcohol
Odour Threshold (ppm)	No data available
pH (Value)	Not applicable
Melting Point (°C) / Freezing Point (°C)	No data available
Boiling point/boiling range (°C):	No data available
Flash Point (°C)	22
Evaporation rate (Air =1)	>1.0 (Ethanol)
Flammability (solid, gas)	Combustible liquid and vapour
Explosive limit ranges.	No data available
Vapour Pressure (mm Hg)	44.6 at 20°C (Ethanol)
Vapour Density (Air=1)	No data available
Density (g/ml)	0.9 at 25°C
Solubility (Water)	Partially 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)	No data available
Explosive properties	No data available
Oxidising properties	No data available
9.2 Other information	None

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No data available.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	See 10.5
10.4 Conditions to avoid	Heat, open flame, sources of ignition such as static discharge during dry cold weather.
10.5 Incompatible materials	Strong oxidisers, Alkali metals, Alkaline earth metals, Nitric acid, Sulphuric acid and Peroxides, e.g. hydrogen peroxide.
10.6 Hazardous Decomposition Product(s)	Hazardous decomposition products are not expected to form during normal storage. When heated and in case of fire, Carbon monoxide and Carbon dioxide (CO ₂) could be formed.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

There is no information regarding the mixture but two of the components have been assessed as follows:

Methanol:

LD50 Oral - Human - 143 mg/kg

Remarks: Lungs, Thorax, or Respiration: Dyspnea.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LD50 Oral, Rat, 1,187 - 2,769 mg/kg

LC50 Inhalation, Rat, 4 h, 128.2 mg/l

LC50 Inhalation, Rat, 6 h, 87.6 mg/l

LD50 Dermal, Rabbit, 17,100 mg/kg;

Ethanol:

LD50, Oral, Rat, > 2000 mg/kg

LD50, Dermal, Rabbit, > 2000 mg/kg

LC50, Inhalation, Mouse, > 20 mg/l (vapours).

No data available

No data available

No data available

No data available

No data available

No data available

No data available

Irritation

Corrosivity

Sensitisation

Repeated dose toxicity

Carcinogenicity

Mutagenicity

Toxicity for reproduction

11.2 Other information

Methanol may be fatal or cause blindness if swallowed. Effects due to methanol ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed, Damage of the Liver, Kidney. Specific target organ toxicity - single exposure Causes damage to organs.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

There is no information regarding the mixture but two of the components have been assessed as follows:

Methanol:

LC50, Lepomis macrochirus (Bluegill), 15,400.0 mg/l, 96 h

NOEC, Oryzias latipes, 7,900 mg/l, 200 h

EC50, Daphnia magna (Water flea), > 10,000.00 mg/l, 48h

EC50, Scenedesmus capricornutum (fresh water algae), 22,000.0 mg/l, 96 h.

Ethanol: L

LC50, Fish, Leuciscus idus (Golden orfe), > 100 mg/l, 48h

EC50, Daphnia magna, >100mg/l, 48h

EC50, Selenastrum capricornutum, >100mg/l, 48h.

Readily biodegradable.

Not expected to bioaccumulate.

Adsorption to solid soil is not expected.

No PBT or VPVB Components

None

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and VPVB assessment

12.6 Other adverse effects

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.


Contaminated packages must be completely emptied before sending away for laundering and re-use. Waste, residue, empty containers, discarded work clothes and used disposable towels must be collected in designated receptacles, labelled with content. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Contaminated packaging should be disposed of as hazardous waste, according to local authority guidelines. None

13.2 Additional Information

14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S (Ethanol, Methanol, Methyl Ethyl Ketone, Ethyl Acetate)
Transport hazard class(es)	3
Packing Group	II
Hazard label(s)	
Environmental hazards	No
Special precautions for user	None

14.2 Sea transport (IMDG)

UN number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S (Ethanol, Methanol, Methyl Ethyl Ketone, Ethyl Acetate)
Transport hazard class(es)	3
Packing Group	II
Marine Pollutant	No
Special precautions for user	None

14.3 Air transport (ICAO/IATA)

UN number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S (Ethanol, Methanol, Methyl Ethyl Ketone, Ethyl Acetate)
Transport hazard class(es)	3
Packing Group	II
Environmental hazards	No
Special precautions for user	None

14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Category C, IBC Instruction IBC02

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15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	1907/2006 – REACH 1272/2008 – CLP 648/2004/EC-Detergents Directive (EU) 528/2012) - BPR
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.

16. 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)

H225 : Highly flammable liquid and vapour.

H301 : Toxic if swallowed.

H311 : Toxic in contact with skin.

H319 : Causes serious eye irritation

H331 : Toxic if inhaled.

H336 : May cause drowsiness or dizziness

H370 : Causes damage to organs.

H371 : May cause damage to organs.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

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.