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SECTION 1: IDENTIFICATION			
1.1 Product identifier			
	F 11 @ /40		
	Frusedale® (40mg oral tablets)		
	Not Available		
Proper Shipping name:	Not Available		
Other means of identification:	None		
1.2 Relevant identified uses	of the substances or mixture and uses advised against		
Recommended uses:	For the treatment of oedema associated with cardiac insufficiency, renal dysfunction and trauma in cats and dogs.		
	In animals with pulmonary oedema of cardiac origin, combined therapy with other medicinal products may be indicated.		
Uses advised against:	Not for human use. Do not use in animals with acute glomerular nephritis, renal failure with anuria, electrolyte deficiency disease or in animals that have received an overdosage of digitalis. Do not use concurrently with aminoglycoside antibiotics. Do not use in animals weighing less than 4 kg.		
1.3 Details of the supplier o	f the substance or mixture		
Registered company name:	Dechra Ltd		
Address:	Snaygill Industrial Estate Keighley Road Skipton North Yorkshire BD23 2RW UK		
Telephone:	+44 (0) 1756 791311		
Fax:	+44 (0) 1756 798604		
Email:	Not available		
1.4 Emergency Telephone Numbers			
	+44 (0) 1756 791311		

SECTION 2: HAZARDS IDENTIFICATION		
2.1 Classification of the substance or mixture		
DSD Classification (EU):	Not Available	

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DPD Classification (EU)1:	Not Available		
Classification according to regulation (EC) No 1272/2008 [CLP] (EU) ¹ :	Not Available		
2.2 Label Elements			
Signal Word:	Not Available		
Hazard Statement(s)			
Not Available			
Additional Statement(s)			
Not Available	Not Available		
Precautionary Statement(s)	Precautionary Statement(s) Prevention:		
Not Available			
Precautionary Statement(s)	Response:		
Not Available			
Precautionary Statement(s) Storage:			
Not Available			
Precautionary Statement(s) Disposal:			
Not Available			
2.3 Other Hazard Information Not Available	on		

SECTION 3: INFORMATION ON THE INGREDIENTS

3.1 Substances

See section below for composition of mixtures

3.2 Mixtures			
1.CAS No 2.EC Number 3.Index Number 4.REACH Number	% w/w	Name	Classification according to regulations (EC) No 1272/2008 [CLP] (EU)
1. 54-31-9 2. 200-203-6 3. Not Available 4. Not Available	40	Furosemide (Frusemide)	Reproductive Toxicity Category 1B; H360 ¹
Legend:	1. Classified by Chemwatch		

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SECTION 4: FIRST AID MEASURES				
4.1 Description of first a	4.1 Description of first aid measures			
Eye contact:	In case of accidental contact of the product with the eyes rinse abundantly with copious amounts of fresh water. Seek medical attention, showing the package leaflet or the label to the medical practitioner.			
Skin contact:	In case of accidental contact of the product with the skin rinse abundantly with fresh water. Seek medical attention if irritation persists, showing the package leaflet or the label to the medical practitioner. Gloves should be worn when handling the tablets.			
Inhalation:	Remove to fresh air and seek medical attention.			
Ingestion:	Following accidental ingestion, seek medical advice, showing the package leaflet to the medical practitioner. Treatment is symptomatic and includes replacement of fluid and electrolytes.			
4.2 Most important symptoms and effects, both acute and delayed				
See Section 11				
4.3 Indication of immediate medical attention and special treatment needed $\ensuremath{\text{N/a}}$				

SECTION 5: FIRE FIGHTING MEASURES			
5.1 Extinguishing media			
Suitable:	All systems may be used.		
Unsuitable:	None.		
5.2 Special hazards arising from the substance or mixture			
Fire incompatibility: None known.			
5.3 Special protective actions for fire-fighters:			
Firefighting:	Alert Fire Brigade and tell them location and nature of hazard. Wear full breathing apparatus and self-contained breathing apparatus.		

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Fire / explosion hazard: Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the

solid are a particular hazard.

- Combustion products include:
- carbon monoxide (CO)
- carbon dioxide (CO2)
- hydrogen chloride
- phosgene
- nitrogen oxides (NOx)
- sulfur oxides (SOx)
- other pyrolysis products typical of burning organic material.

Emits toxic fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For information on protective equipment, see section 8.

6.2 Environmental Precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Minor Spills:	Flush residues and small spillages to waste with copious quantities of water.
Major Spills:	Clean up all spills immediately. Large spills should be collected into an appropriate container for waste disposal. Control personal contact with the substance, by using protective equipment. Avoid contact with skin and eyes.

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SECTION 7: HANDLING AND STORAGE			
7.1 Precautions for safe handling			
Safe Handling:	Wear suitable protection gloves and clothing when handling the product. Wash hands after use. Avoid contact and inhalation of dust/fumes associated with the product. When handling, DO NOT eat, drink or smoke. Observe manufacturer's storage and handling recommendations.		
Other Information:	Other Information: Keep out of the reach and sight of children.		
7.2 Conditions for safe sto	orage, including any incompatibilities		
Suitable Container:	Do not store above 25°C. Protect from light. Shelf life of the veterinary medicinal product as packaged for sale: 4 years.		
Storage incompatibility:	No major incompatibilities known.		
7.3 Specific end uses			
Not available			

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1 Control parameters		
DERIVED NO EFFECT LEVEL - DNEL		
Not Available		
PREDICTED NO EFFECT LEVEL - PNEC		
Not Available		
OCCUPATIONAL EXPOSURE LIMITS (OEL)		

INGREDIENT DATA:	
Not Available	

EMERGENCY LIMITS:				
Ingredient Material Name TEEL-1 TEEL-2 TEEL-3				
Not Available				

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Ingredient	Original IDLH	Revised IDLH	
Not Available			
8.2 Exposure controls			
	The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.		
Personal protection:			
Eye and face protection:	Safety glasses with side shields / chemical goggles		
Skin protection:	See hand protection below		
Hands/ feet protection:	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves		
Body protection:	Wear appropriate clothing		
Other protection:	No special equipment needed when handling small quantities		
Thermal hazards:	Not applicable		
Respiratory protection:	Not applicable		
8.3 Environmental exposure controls See Section 12			

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Frusedale®: White, circular, biconvex, flat-faced tablets with bevelled edges

and a breakline.

Furosemide: A white or almost white, crystalline powder

Container: Polypropylene containers containing 1000 white, circular, biconvex, flat-faced tablets with bevelled edges, a breakline and which are embossed F40 on one face, CP or DP

on the reverse.

Physical state: Solid Odour: Not available

Odour Threshold: Not available pH (as supplied): Not available

Melting point / freezing point (degrees C): Furosemide 210°C with decomposition

Initial boiling point and boiling range: Not available

Flash Point: Not available Evaporation rate: Not available Flammability: Not available

Upper/lower flammability or explosive limits: Not available

Vapour pressure: Not available

Relative Density (at degrees C): Not available

Solubility in water and solvents (mg/l): Furosemide practically insoluble

Vapour density: Not available

Auto ignition temperature (degrees C): Not available Decomposition temperature (degrees C): Not available

Viscosity: (degrees C): Not available Explosive properties: Not available Oxidising properties: Not available Partition Coefficient: Not available Molecular weight: Furosemide 330.7

Taste: Not available

Surface tension: Not available **Volative component:** Not available

Gas group: Not available pH as a solution: Not available

VOC g/L: Not available

9.2 Other information

Not Available

10: REACTIVITY AND STABILITY		
10.1 Reactivity:	See Section 7	
10.2 Chemical stability:	Product is considered stable.	
10.3 Possibility of hazardous reactions:	Stable under normal temperatures and conditions.	
10.4 Conditions to avoid:	Avoid excessive heat.	

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	Exposure to light may cause discolouration.		
10.5 Incompatible materials:	See section 7.		
10.6 Hazardous decomposition:	See Section 5.		

lubalat!au-	Can be installed to the receivate	mu troopt	
	Can be irritating to the respirato		
Ingestion:	Diuretic. Diuresis may result in dehydration, hypokalemia, hypocalcemia and orthostatic hypotension. Other symptoms include weakness, fatigue, nausea, vomiting, dryness of mouth, increased thirst, weak pulse, muscle cramp, pain, irregular heartbeat and mood/mental changes. Possible hypersensitisation.		
Skin contact:	Irritating to skin. Possible hypersensitisation.		
Eye contact:	Possible allergic reaction.		
Chronic:	Most adverse effects of furosemide occur with high doses, and serious effects are uncommon. Administration at the recommended dosage level is not normally associated with undesirable effects.		
	Administration at the recommen	•	
Frusedale [®] :	Administration at the recommen	•	
Frusedale [®] :	Administration at the recommen associated with undesirable effe	ects.	
	Administration at the recommen associated with undesirable effective.	ects. Irritation	
	Administration at the recomment associated with undesirable effect Acute toxicity Not Available	Irritation Not Available	
	Administration at the recomment associated with undesirable effect Acute toxicity Not Available Acute toxicity	Irritation Not Available Irritation	
	Administration at the recomment associated with undesirable effect Acute toxicity Not Available Acute toxicity Oral (rat) LD50: 2600 mg/kg ¹	Irritation Not Available Irritation	

from RTECS - Register of Toxic Effect of chemical Substances

Skin corrosion/irritation:

Can be irritating to the skin; there is a possibility for hypersensitisation.

Serious eye damage/irritation:

There is a risk of allergic reaction.

Respiratory or skin sensitization:

Not available

Germ cell mutagenicity:

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Not available



SECTION 11: TOXICOLOGICAL INFORMATION
Not available
Carcinogenicity:
There has been some concern that Furosemide can cause cancer or mutations but there is not enough data to make an assessment.
Reproductive toxicity:
Not contraindicated in pregnant or lactating animals.
STOT – single exposure:
Not available
STOT-repeated exposure:
Not available
Aspiration hazard:

SECTION 12: ECOLOGICAL INFORMATION				
Not expected to be an environmental hazard.				
12.1 Toxicity				
Not Available				
12.2 Persistence and degradability				
Ingredient	Persistenc	e: water/soil	Persistence: air	
Furosemide	HIGH		HIGH	
12.3 Bioaccumulative potential				
Ingredient Bioaccumulation			lation	
Furosemide		LOW (LogK	LOW (LogKOW = 2.03)	
12.4 Mobility in Soil				
Ingredient Mobility				
Furosemide		LOW (KOC	LOW (KOC = 188.3)	

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12.5 Results of PBT and vPvB assessment	
Not Available	
12.6 Other adverse effects	
Not Available	

SECTION 13: DISPOSAL CONSIDERATIONS			
13.1 Waste treatm	ent methods		
packaging	Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance with national requirements.		
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.		
	Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.		
Waste Treatment Options:			
Sewage Disposal Options:			

SECTION 14: TRANSPORT INFORMATION		
Labels required:	None	
Marine pollutant:	NO	
Hazchem:	Not Applicable	

Land transport (ADR	:):		
14.1 UN Number	N/a		
14.2 UN Proper Shipping Name	N/a		
14.3 Transport	Class	N/a	
hazard class(es)	Sub risk	N/a	
14.4 Packing group	N/a	·	
14.5 Environmental hazards	N/a		

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14.6 Special precautions for	Special provisions	N/a	_
user	Classification code	N/a	
	Hazard Label	N/a	
	Special provisions	N/a	
	Limited quantity	N/a	
14.7 Transport in bulk according to Annex II of	N/a		
MARPOL73/78 and the IBC Code			
Air transport (ICAO-I	ATA / DGR):		
14.1 UN Number	N/a		
14.2 UN Proper Shipping Name	N/a		
14.3 Transport	ICAO/IATA Class	N/a	
hazard class(es)	ICAO / IATA Sub risk	N/a	
	ERG Code	N/a	
14.4 Packing group	N/a		
14.5 Environmental hazards	N/a		
	Special provisions	N/a	
precautions for user	Cargo only packing instructions	N/a	
	Cargo only maximum qty/pack	N/a	
	Passenger and cargo packaging instructions	N/a	
	Passenger and cargo maximum qty/pack	N/a	
	Passenger and cargo limited quantity packing instructions	N/a	
	Passenger and cargo limited maximum qty/pack	N/a	

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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a			
Sea transport (IMDG	-Code / GGVSee):			
14.1 UN Number	N/a			
14.2 UN Proper Shipping Name	N/a			
14.3 Transport	IMDG Class	N/a	<u></u>	
hazard class(es)	IMDG Sub risk	N/a		
14.4 Packing group	N/a			
14.5 Environmental hazards	N/a			
	EMS Number	N/a	<u></u>	
precautions for user	Special provisions	N/a		
	Limited quantities	N/a		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Inland waterways tra				
illialiu waterways tra	ilisport (ADN).			
14.1 UN Number	N/a			
14.2 UN Proper Shipping Name				
14.3 Transport hazard class(es)	N/a N/a			
14.4 Packing group	N/a	N/a		
14.5 Environmental hazard				
	Classification Code N/a			
precautions for user	Special provisions		N/a	
	Limited quantity		N/a	
	Equipment required		N/a	
	Fire cones number N/a			
14.7 Transport in	N/a			

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

SECTION 15: REGULATORY INFORMATION

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

FUROSEMIDE (54-31-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- European Customs Inventory of Chemical Substances ECICS (English)
- European Union European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
- International Agency for Research on Cancer (IARC) Agents Classified by the IARC Monographs

15.2 Chemical Safety Assessment

ECHA SUMMARY

Ingredient	CAS number	Index Number	ECHA Dossier
Furosemide	54-31-9	Not Available	Not Available

Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Repr. 1B	GHS08, Dgr,	H360
2		GHS08, Dgr, GHS06	H315, H319, H335, H301, H360Df, H350, H341, H373, H312, H332, H362, H412

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification

Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (furosemide)
China - IECSC	N (furosemide)

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Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	N (furosemide)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

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SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by REACH, GHS and ECHA.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediately Dangerous to Life or Health Concentrations

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