

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

# **Troy Laboratories Pty Ltd**

Chemwatch: 5394-77

Version No: 7.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

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

#### **Product Identifier**

Product name	ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES
Chemical Name	Not Applicable
Synonyms	APVMA number: 62535
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	A non-steroidal anti-inflammatory analgesic-antipyretic for use in cattle, pigs and horses. To be used as directed on product label.
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#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Troy Laboratories Pty Ltd	
Address	Glendenning Road Glendenning NSW 2761 Australia	
Telephone	808 3600	
Fax	02 9677 9300	
Website	www.Troylab.com.au	
Email	admin@troylab.com.au	

#### **Emergency telephone number**

Association / Organisation	Ixom Emergency Response Service	
Emergency telephone number(s)	1800 033 111 (24 hours)	
Other emergency telephone number(s)	Not Available	

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	S4		
Classification <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 1A		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

#### Label elements

Hazard pictogram(s)



Issue Date: **28/06/2024** Print Date: **31/03/2025** L.GHS.AUS.EN.E Version No: 7.1

Page 2 of 12

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Signal word Danger

#### Hazard statement(s)

H319	Causes serious eye irritation.
H350	May cause cancer.

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P280	r protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

#### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	NEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

#### Precautionary statement(s) Storage

P405	Store locked up.

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
64-17-5	10-20	ethanol
71125-38-7	1-10	meloxicam
Not Available	balance	Ingredients determined not to be hazardous
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

#### **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasional lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>			
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>			
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>			
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> </ul>			

#### Page 3 of 12

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
  - Transport to hospital or doctor without delay.

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

Treat symptomatically.

for non-steroidal anti-inflammatories (NSAIDs)

- Symptoms following acute NSAIDs overdoses are usually limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which are generally reversible with supportive care. Gastrointestinal bleeding can occur. Hypertension, acute renal failure, respiratory depression, and coma may occur, but are rare. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs, and may occur following an overdose.
- Patients should be managed by symptomatic and supportive care following a NSAIDs overdose.
- There are no specific antidotes.
- Emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 g/kg in children), and/or osmotic cathartic may be indicated in patients seen within 4 hours of ingestion with symptoms or following a large overdose (5 to 10 times the usual dose).
- Forced diuresis, alkalinisation of urine, hemodialysis, or haemoperfusion may not be useful due to high protein binding.
- For gastrointestinal haemorrhage, monitor stool guaiac and administer antacids or sucralfate.
- For mild/moderate allergic reactions, administer antihistamines with or without inhaled beta agonists, corticosteroids, or epinephrine.
- For severe allergic reactions, administer oxygen, antihistamines, epinephrine, or corticosteroids. Nephritis or nephrotic syndrome, thrombocytopenia, or haemolytic anemia may respond to glucocorticoid administration.
- For severe acidosis, administer sodium bicarbonate.
- Administer as required: plasma volume expanders for severe hypotension; diazepam or other benzodiazepine for convulsions; vitamin K1 for hypoprothrombinaemia; and/or dopamine plus dobutamine intravenously to prevent or reverse early indications of renal failure.

Serious gastrointestinal toxicity, such as bleeding, ulceration, and perforation, can occur at any time, with or without warning symptoms, in patients treated chronically with NSAID therapy. Although minor upper gastrointestinal problems, such as dyspepsia, are common, usually developing early in therapy, physicians should remain alert for ulceration and bleeding in patients treated chronically with NSAIDs even in the absence of previous GI tract symptoms. In patients observed in clinical trials of several months to two years duration, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3 to 6 months, and in about 2% to 4% of patients treated for one year. Physicians should inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur.

Studies to date have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than other individuals, and most spontaneous reports of fatal GI events are in this population. Studies to date are inconclusive concerning the relative risk of various NSAIDs in causing such reactions. High doses of any NSAID probably carry a greater risk of these reactions, although controlled clinical trials showing this do not exist in most cases. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- foam
- dry chemical powder.
- carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	The emulsion is not combustible under normal conditions. However, it will break down under fire conditions and the hydrocarbon component will burn. Decomposes on heating and produces: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

Version No: 7.1

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

#### **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills Minor Spills Minor Spills Minor Spills Control pe Contain au Vipe up. Place in a Moderate haz Clear area Alert Fire Wear brea Prevent, b No smokin Increase N	Il ignition sources. all spills immediately. athing vapours and contact with skin and eyes. ersonal contact with the substance, by using protective equipment. and absorb spill with sand, earth, inert material or vermiculite. suitable, labelled container for waste disposal. ard. a of personnel and move upwind.
<ul> <li>Clear area</li> <li>Alert Fire</li> <li>Wear brea</li> <li>Prevent, b</li> <li>No smokin</li> <li>Increase v</li> </ul>	
<ul> <li>Contain sp</li> <li>Collect red</li> <li>Absorb red</li> <li>Collect so</li> </ul>	Brigade and tell them location and nature of hazard. athing apparatus plus protective gloves. by any means available, spillage from entering drains or water course. hy, naked lights or ignition sources. ventilation. if safe to do so. bill with sand, earth or vermiculite. coverable product into labelled containers for recycling. maining product with sand, earth or vermiculite. lid residues and seal in labelled drums for disposal. a and prevent runoff into drains.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

#### Precautions for safe handling

	Avoid all personal contact, including inhalation.
	<ul> <li>Wear protective clothing when risk of exposure occurs.</li> </ul>
	Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	<ul> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> </ul>
	<ul> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> </ul>
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
Safe handling	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	• Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are
	maintained.
	Store in original containers.
	Keep containers securely sealed.
	Store in a cool, dry, well-ventilated area.
Other information	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.

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

Suitable container	<ul> <li>Packaging as recommended by manufacturer.</li> <li>Check that containers are clearly labelled.</li> <li>Tamper-proof containers.</li> <li>Polyethylene or polypropylene containers.</li> <li>Metal drum with sealed plastic liner.</li> <li>Glass container is suitable for laboratory quantities</li> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.	

#### Page 5 of 12

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Avoid strong bases.

### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA		STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3		Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH				
ethanol	Not Available		Not Available				
meloxicam	Not Available		Not Available				

### MATERIAL DATA

### Exposure controls

Appropriate engineering controls	Enclosed local exhaust ventilation is required at points of dus HEPA terminated local exhaust ventilation should be conside Barrier protection or laminar flow cabinets should be conside A fume hood or vented balance enclosure is recommended fr When handling quantities up to 500 gram in either a standard per hour) is preferred. Quantities up to 1 kilogram may requir cabinet, or approved vented enclosures. Quantities exceedin containment laboratory using appropriate barrier/ containment Manufacturing and pilot plant operations require barrier/ containment technology and direct coupling (totally e the room) typically use double or split butterfly valves and hy powder containment booths). Glove bags, isolator glove box handling areas is required. Fume-hoods and other open-face containment devices are a are achieved. Partitions, barriers, and other partial containment generated in the workplace possess varying "escape" velocit circulating air required to effectively remove the contaminant.	ared at point of generation of dust, fumes or v red for laboratory scale handling. or weighing/ transferring quantities exceeding d laboratory with general dilution ventilation ( re a designated laboratory using fume hood, l ig 1 kilogram should be handled in a designant technology. animent and direct coupling technologies. enclosed processes that create a barrier betw brid unidirectional airflow/ local exhaust venti systems are optional. HEPA filtration of exha cceptable when face velocities of at least 1 n ent technologies are required to prevent migr ocal and general exhaust are necessary. Air ies which, in turn, determine the "capture vel	g 500 mg. e.g. 6-12 air changes biological safety ted laboratory or reen the equipment and ilation solutions (e.g. nust from dry product n/s (200 feet/minute) ation of the material to contaminants
	Type of Contaminant:	-	Air Speed:
	solvent, vapours, etc. evaporating from tank (in still air)	0.25-0.5 m/s (50- 100 f/min.)	
	aerosols, fumes from pouring operations, intermittent conta (released at low velocity into zone of active generation)	ainer filling, low speed conveyer transfers	0.5-1 m/s (100-200 f/min.)
	direct spray, drum filling, conveyer loading, crusher dusts, g of rapid air motion)	gas discharge (active generation into zone	1-2.5 m/s (200-500 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	Simple theory shows that air velocity falls rapidly with distance generally decreases with the square of distance from the exti extraction point should be adjusted, accordingly, after referer extraction fan, for example, should be a minimum of 1-2.5 m/ distant from the extraction point. Other mechanical considera apparatus, make it essential that theoretical air velocities are installed or used. The need for respiratory protection should also be assessed on levels of contamination, PAPR, full face air purifying devic evaluated. The following protective devices are recommended where ex- factors of: 10; high efficiency particulate (HEPA) filters or cartridges 10-25; loose-fitting (Tyvek or helmet type) HEPA powered-air 25-50; a full face-piece negative pressure respirator with HEF 50-100; tight-fitting, full face-piece HEPA PAPR	raction point (in simple cases). Therefore the nee to distance from the contaminating source /s (200-500 f/min.) for extraction of gases dis ations, producing performance deficits within multiplied by factors of 10 or more when ext where incidental or accidental exposure is an ease with P2 or P3 filters or air supplied respira- toposures exceed the recommended exposure purifying respirator.	a air speed at the e. The air velocity at the charged 2 meters the extraction raction systems are nticipated: Dependent ators should be

Page 6 of 12

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

	100-1000; a hood-shroud HEPA PAPR or full face-piece supplied air respirator operated in pressure demand or other positive pressure mode.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>When handling very small quantities of the material eye protection may not be required.</li> <li>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: <ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> <li>Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul> </li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference.</li> <li>Double gloving should be considered.</li> <li>PVC gloves.</li> <li>Change gloves frequently and when contaminated, punctured or torn.</li> <li>Wash hands immediately after removing gloves.</li> <li>Protective shoe covers. [AS/NZS 2210]</li> <li>Head covering.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers.</li> <li>For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection.</li> <li>Eye wash unit.</li> <li>Ensure there is ready access to an emergency shower.</li> <li>For Emergencies: Vinyl suit</li> </ul>

#### Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Material	CPI
BUTYL	A
NEOPRENE	A
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
VITON	С

\* CPI - Chemwatch Performance Index

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice

**Respiratory protection** 

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	A-2 P2	A-PAPR-2 P2 ^
up to 10 x ES	-	A-3 P2	-
10+ x ES	-	Air-line**	-

\* - Continuous Flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

 $\begin{array}{l} \mathsf{A}(\mathsf{AII}\ \mathsf{classes}) = \mathsf{Organic}\ \mathsf{vapours},\ \mathsf{B}\ \mathsf{AUS}\ \mathsf{or}\ \mathsf{B1} = \mathsf{Acid}\ \mathsf{gasses},\ \mathsf{B2} = \mathsf{Acid}\ \mathsf{gas}\ \mathsf{or}\ \mathsf{hydrogen}\ \mathsf{cyanide}(\mathsf{HCN}),\ \mathsf{B3} = \mathsf{Acid}\ \mathsf{gas}\ \mathsf{or}\ \mathsf{hydrogen}\ \mathsf{cyanide}(\mathsf{HCN}),\ \mathsf{E} = \mathsf{Sulfur}\ \mathsf{dioxide}(\mathsf{SO2}),\ \mathsf{G} = \mathsf{Agricultural}\ \mathsf{chemicals},\ \mathsf{K} = \mathsf{Ammonia}(\mathsf{NH3}),\ \mathsf{Hg} = \mathsf{Mercury},\ \mathsf{NO} = \mathsf{Oxides}\ \mathsf{of}\ \mathsf{nitrogen},\ \mathsf{MB} = \mathsf{Methyl}\ \mathsf{bromide},\ \mathsf{AX} = \mathsf{Low}\ \mathsf{boiling}\ \mathsf{point}\ \mathsf{organic}\ \mathsf{compounds}(\mathsf{below}\ \mathsf{65}\ \mathsf{degC}) \\ \end{array}$ 

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr.

A: Best Selection

Ansell Glove Selection

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted. Used cartridges should be discarded daily, regardless of the length of time used

Glove — In order of recommendation	
AlphaTec 02-100	
MICROFLEX® 63-864	
MICROFLEX® Diamond Grip® MF-300	
AlphaTec® Solvex® 37-185	
AlphaTec® 38-612	
AlphaTec® 58-008	
AlphaTec® 79-700	
AlphaTec® Solvex® 37-675	
TouchNTuff® 83-500	
DermaShield™ 73-711	

The suggested gloves for use should be confirmed with the glove supplier.

### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Clear yellow liquid with ethanol odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.024
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	8.5-10	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	<0	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	<100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	~80
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

Version No: 7.1

#### Page 8 of 12

#### ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Hazardous decomposition products

See section 5

### **SECTION 11 Toxicological information**

Information	on	toxicological effects

a) Acute Toxicity	Based on available data, the classification criteria are not met.		
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.		
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating		
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.		
e) Mutagenicity	Based on available data, the classification criteria are not met.		
f) Carcinogenicity	There is sufficient evidence to classify this material as carcinoge	nic	
g) Reproductivity	Based on available data, the classification criteria are not met.		
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.		
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.		
j) Aspiration Hazard	Based on available data, the classification criteria are not met.		
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This reflexes, lack of coordination and vertigo.	s may be accompanied by narcosis, reduced alertness, loss of	
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other of the lack of corroborating animal or human evidence. The mat following ingestion, especially where pre-existing organ (e.g live toxic substances are generally based on doses producing morta Gastrointestinal tract discomfort may produce nausea and vomit quantities is not thought to be cause for concern.	erial may still be damaging to the health of the individual, r, kidney) damage is evident. Present definitions of harmful or lity rather than those producing morbidity (disease, ill-health).	
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Limited evidence suggests that repeated or long-term occupatio organs or biochemical systems. There exists limited evidence that shows that skin contact with t in a significant number of individuals, and/or of producing positiv	he material is capable either of inducing a sensitisation reaction	
ILIUM MELOXICAM 20			
ANTI-INFLAMMATORY	ΤΟΧΙΟΙΤΥ	IRRITATION	
	TOXICITY Not Available	IRRITATION Not Available	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND		Not Available	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available TOXICITY	Not Available	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	Not Available IRRITATION Eye (Rodent - rabbit): 0.1mL	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	Not Available IRRITATION Eye (Rodent - rabbit): 0.1mL	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild         Eye: adverse effect observed (irritating) <sup>[1]</sup>	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Human): 70%/2D	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Human): 70%/2D         Skin (Rodent - rabbit): 20mg/24H - Moderate	
ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Not Available         IRRITATION         Eye (Rodent - rabbit): 0.1mL         Eye (Rodent - rabbit): 100mg/4S - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 100uL - Moderate         Eye (Rodent - rabbit): 500mg - Severe         Eye (Rodent - rabbit): 500mg/24H - Mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Human): 70%/2D         Skin (Rodent - rabbit): 20mg/24H - Moderate         Skin (Rodent - rabbit): 20mg/24H - Moderate	

### ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances
ETHANOL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
MELOXICAM	The production of vestales, scaling and intekting of the skin. Carcinopenicity: No carcinogenic effect of meloxicam was observed in rats given oral doses up to 0.8 mg/kg/day (approximately 0.4-fold the human dose at 15 mg/day for a 50 kg adult based on body surface area conversion) for 104 weeks or in mice given oral doses up to 8.0 mg/kg/day (approximately 2.2-fold the human dose, as noted above) for 99 weeks. Reproductive Toxicity: 1. Meloxicam did not impair male and female feritility in rats uhen dams were given meloxicam 21 doses <i>y</i> = 1 mg/kg/day (0.5- fold the human dose, as noted above). However, an increased incidence of embryolethality at oral doses <i>y</i> = 1 mg/kg/day (0.5- fold the human dose, as noted above) was observed in rats when dams were given meloxicam 22 weeks prior to mating and during early embryonic development. Teratogenicity: Pregnancy Category C: Meloxicam caused an increased incidence of sept defect of the heart, a rare event, at an oral dose of 60 mg/kg/day (64.5-fold the human dose, as noted above) when rabbits were treated throughout organogenesis. Meloxicam was not teratogenic in rats up to an oral dose of 4 mg/kg/day (approximately 2.2-fold the human dose, as noted above) throughout organogenesis. Meloxicam crosses the placental barrier. There are no adequate and well-controlled studies in pregnant women. Mutagenicity: Meloxicam crosses the placental barrier. There are no adequate and well-controlled studies in pregnant women. Mutagenicity: Meloxicam crosses the placental barrier. There are no adequate and well-controlled studies in pregnant women. Mutagenicity: Meloxicam crosses the placental barrier. There is a general acceptance that NSAIDs induce colon cancer in humans. One suggested reason is that the balance between on arachidonic acid (AA) metabolism have a potential role in cancer chemotherapy and chemoprevention. There is a general acceptance that NSAIDs induce colon cancer in humans. One suggested reason is that the balance between cell membranes in resp
Acute Toxicity	X Carcinogenicity

Acute Toxicity	×	Carcinogenicity	*
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Le	gend: 🛛 🗙 – Data either not ava	ilable or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

### Toxicity

ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available N		Not Available	Not Available	Not Available
ethanol	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	2mg/L	4
	EC50	72h	Algae or other aquatic plants	275mg/l	2
	LC50	96h	Fish	42mg/L	4

Continued...

Page 10 of 12

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
meloxicam	NOEC(ECx)	144h	Fish	0.1mg/L	4
Legend:	4. US EPA, Eco	tox database - Aquatic Toxicity	pe ECHA Registered Substances - Ecotoxicolo Data 5. ECETOC Aquatic Hazard Assessment ncentration Data 8. Vendor Data		-

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)

#### Mobility in soil

Ingredient	Mobility
ethanol	HIGH (Log KOC = 1)

#### **SECTION 13 Disposal considerations**

Vaste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### 14.7. Maritime transport in bulk according to IMO instruments

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
ethanol	Not Available

### ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

Product name	Group
meloxicam	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethanol	Not Available
meloxicam	Not Available

### **SECTION 15 Regulatory information**

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

ethanol is found on the following regulatory lists
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4
Australian Inventory of Industrial Chemicals (AIIC)
meloxicam is found on the following regulatory lists
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
FEI Equine Prohibited Substances List - Controlled Medication
FEI Equine Prohibited Substances List (EPSL)

#### **Additional Regulatory Information**

Not Applicable

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (meloxicam)	
Canada - DSL	No (meloxicam)	
Canada - NDSL	No (ethanol; meloxicam)	
China - IECSC	No (meloxicam)	
Europe - EINEC / ELINCS / NLP	No (meloxicam)	
Japan - ENCS	No (meloxicam)	
Korea - KECI	No (meloxicam)	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (meloxicam)	
USA - TSCA	TSCA Inventory 'Active' substance(s) (ethanol); No (meloxicam)	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	No (meloxicam)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date	28/06/2024
Initial Date	30/04/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	02/11/2022	Name
7.1	28/06/2024	Classification change due to full database hazard calculation/update.

# ILIUM MELOXICAM 20 ANTI-INFLAMMATORY INJECTION FOR CATTLE, SHEEP, PIGS AND HORSES

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- + FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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