



Version 2.5	Revision Date: 06.04.2024	-	S Number: 76212-00010	Date of last issue: 30.09.2023 Date of first issue: 04.03.2020		
	1: IDENTIFICATION ct name	:	Acefylline Hepta	minol Formulation		
Manu	facturer or supplier's c	letai	ils			
Comp	any	:	Intervet Australia	a Pty Limited (trading as MSD Animal Health)		
Addre	SS	:	91-105 Harpin S Bendigo 3550, ^v	treet Victoria Austrailia		
Telepl	hone	:	1 800 033 461			
Emerç	gency telephone number	r :	Poisons Information Centre: Phone 13 11 26			
E-mai	laddress	:	EHSDATASTEWARD@msd.com			
Reco	mmended use of the cl	hem	ical and restriction	ons on use		
	nmended use ctions on use	:	Veterinary product Not applicable			
SECTION	2. HAZARDS IDENTIFI	САТ	ION			
GHS	Classification					
	fic target organ toxicity - exposure (Oral)	:	Category 2			
GHS I	abel elements					
Hazar	d pictograms	:				
Signa	l word	:	: Warning			

Precautionary statements

Hazard statements

Prevention:

:

P260 Do not breathe mist or vapours.P264 Wash skin thoroughly after handling.P270 Do not eat, drink or smoke when using this product.

: H371 May cause damage to organs if swallowed.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Storage:

P405 Store locked up.



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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2,3,6-Tetrahydro-1,3-dimethyl-2,6-dioxo-7H- purine-7-acetic acid, compound with 6-amino-2- methylheptan-2-ol (1:1)	10075-18-0	>= 10 -< 30

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May cause damage to organs if swallowed.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing media	:	None known.



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Spec fighti	rific hazards during fire-	:	Exposure to com	bustion products may be a hazard to health.	
	ardous combustion prod-	:	Carbon oxides		
Spec ods	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to o so. Evacuate area.		
	cial protective equipment refighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.	
SECTION	I 6. ACCIDENTAL RELE	AS	E MEASURES		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).	
Envir	Environmental precautions		Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	
	Methods and materials for containment and cleaning up		For large spills, p ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.	

SECTION 7. HANDLING AND STORAGE

: See Engineering measures under EXPOSURE
CONTROLS/PERSONAL PROTECTION section.
: Use only with adequate ventilation.
: Do not breathe mist or vapours.
Do not swallow.
Avoid contact with eyes.
Avoid prolonged or repeated contact with skin.
Wash skin thoroughly after handling.



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Hyg	iene measures	 practice, based of sessment Do not eat, drink Take care to preventionment. If exposure to cheflushing systems place. When using do n Wash contamina The effective opeengineering contappropriate dego 	ance with good industrial hygiene and safety on the results of the workplace exposure as- or smoke when using this product. vent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the
Con	ditions for safe storage	: Keep in properly Store locked up.	labelled containers.
Mat	erials to avoid		nce with the particular national regulations. the following product types: agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
1,2,3,6-Tetrahydro-1,3- dimethyl-2,6-dioxo-7H-purine- 7-acetic acid, compound with 6-amino-2-methylheptan-2-ol (1:1)	10075-18-0	TWA	50 µg/m3 (OEB 3)	Internal
		Wipe limit	500 µg/cm2	Internal

Engineering measures:Use appropriate engineering controls and manufacturing
technologies to control airborne concentrations (e.g., drip-
less quick connections).
All engineering controls should be implemented by facility
design and operated in accordance with GMP principles to
protect products, workers, and the environment.
Containment technologies suitable for controlling compounds
are required to control at source and to prevent migration of
the compound to uncontrolled areas (e.g., open-face con-
tainment devices).
Minimize open handling.Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-



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	Iter type protection	ommended g : Particulates t	uidelines, use respiratory protection. ype			
Ma	aterial	: Chemical-res	Chemical-resistant gloves			
Remarks Eye protection		: Wear safety of If the work en mists or aeros Wear a faces	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.			
Skin and body protection		Additional bo task being pe posable suits Use appropria	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	Colorless to pale yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	5.0 - 6.0
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available

SAFETY DATA SHEET



Acefylline Heptaminol Formulation

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Relati	ive vapour density	:	No data availabl	e
Relati	ve density	:	No data availabl	e
Densi	ity	:	No data availabl	e
	ility(ies) ater solubility	:	No data availabl	e
	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data availabl	e
Decor	mposition temperature	:	: No data available	
Visco Vis	sity scosity, kinematic	:	No data availabl	e
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance c	or mixture is not classified as oxidizing.
Molec	cular weight	:	No data availabl	e
	le characteristics le size	:	Not applicable	
ECTION	10. STABILITY AND R	EAC	ΤΙVITY	
	tivity nical stability	:	Not classified as Stable under not	

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition		No hazardous decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation
-	Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg



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		Method: Calci	ulation method
		Method. Oale	
Com	ponents:		
	,6-Tetrahydro-1,3-dim o-2-methylheptan-2-o		purine-7-acetic acid, compound with 6-
	e oral toxicity	: LD50 (Rat): 9	00 mg/kg s: Gastrointestinal tract, Lungs
		LD50 (Mouse): 2,733 mg/kg
	e toxicity (other routes nistration)): > 500 mg/kg bute: Intravenous
		LD50 (Cat): 3 Application Re	00 mg/kg bute: Intravenous
		LD50 (Dog): 3 Application Re	50 mg/kg bute: Intravenous
Not c Serio	corrosion/irritation lassified based on ava ous eye damage/eye i	rritation	
	lassified based on ava		
•	iratory or skin sensit	isation	
•	lassified based on ava	ilable information.	
-	iratory sensitisation lassified based on ava	ilable information.	
Chro	nic toxicity		
	n cell mutagenicity lassified based on ava	ilable information.	
	i nogenicity lassified based on ava	ilable information.	
-	oductive toxicity lassified based on ava	ilable information.	
	Γ - single exposure		
	cause damage to orga	ns if swallowed.	
	ponents:		
amin	,6-Tetrahydro-1,3-din o-2-methylheptan-2-o sure routes		purine-7-acetic acid, compound with 6-
		. Jiai	



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Asse	ssment		ice significant health effects in animals at con- 300 to 2000 mg/kg bw.
	F - repeated exposure lassified based on ava		
-	ration toxicity lassified based on ava	ilable information.	
Expe	rience with human ex	xposure	
<u>Com</u>	ponents:		
	,6-Tetrahydro-1,3-dim o-2-methylheptan-2-c		urine-7-acetic acid, compound with 6-
Inges	stion	Symptoms: Nau Target Organs: Symptoms: Pal Target Organs: Symptoms: hair Target Organs:	bitation, tachycardia, hypotension Hair loss Central nervous system scle twitching, Irritability, insomnia, nervous-
SECTION	12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
No da	ata available		
	istence and degradab ata available	bility	

Bioaccumulative potential

No data available Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Not applicable Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

:

:

Not applicable for product as supplied.

National Regulations

EmS Code

Marine pollutant

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class		Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix- ture			
Therapeutic Goods (Poisons : Standard) Instrument	publication to check for	mber allocated (Please use the original specific uses, specific conditions or ght apply for this chemical)	
Prohibition/Licensing Requireme	ents :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.	
The components of this product are reported in the following inventories:			
AICS :	not determined		

DSL	:	not determined
IECSC	:	not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median



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Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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