



Versio 3.1	on	Revision Date: 30.09.2023		S Number: 21883-00004		sue: 04.04.2023 sue: 28.07.2022
Section	on 1: lo	dentification				
F	Product	name	:	Flugestone Aceta	ate Formulation	
Ν	Manufa	cturer or supplier's d	letai	ls		
C	Compar	у	:	MSD		
A	Address		:	33 Whakatiki Stre Upper Hutt - New		g 908
Т	Telepho	one	:	0800 800 543		
E	Emerge	ncy telephone number	· :	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
E	E-mail a	address	:	EHSDATASTEW	ARD@msd.cor	n
F	Recom	mended use of the ch	nemi	ical and restriction	ons on use	
		nended use ions on use	:	Veterinary produce Not applicable	ct	
Section	on 2: H	lazard identification				
G	GHS CI	assification				
F	Reprodu	uctive toxicity	:	Category 1		
		target organ toxicity - d exposure (Oral)	:	Category 2 (Adre	nal gland)	
		ous to the aquatic ment - chronic hazard	:	Category 1		
C	GHS lal	bel elements				
F	Hazard	pictograms	:		¥	

Hazard statements:H360FD May damage fertility. May damage the unborn child.<br/>H373 May cause damage to organs (Adrenal gland) through<br/>prolonged or repeated exposure if swallowed.<br/>H410 Very toxic to aquatic life with long lasting effects.Precautionary statements:Prevention:





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P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

#### Storage:

P405 Store locked up.

#### Disposal:

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

#### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
flugestone 17-acetate	2529-45-5	>= 2.5 -< 10

#### 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.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and	:	



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delayed Protection of first-aiders		:	the skin. Dust contact with First Aid respond and use the reco	t can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. ders should pay attention to self-protection, ommended personal protective equipment	
Notes	s to physician	:		al for exposure exists (see section 8). tically and supportively.	
Section 5	: Fire-fighting measure	S			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical		
Unsu media	itable extinguishing	:	None known.		
	ific hazards during fire-	: Avoid generating dust; fine dust dispersed in air in su concentrations, and in the presence of an ignition so potential dust explosion hazard. Exposure to combustion products may be a hazard t			
Haza ucts	rdous combustion prod-	:	Carbon oxides		
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to d	
for fir	Special protective equipment for firefighters Hazchem Code		Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2Z		
Section 6	: Accidental release me	easi	ires		
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro- tt recommendations (see section 8).	
Envir	onmental precautions	:	Retain and dispo	eakage or spillage if safe to do so. ose of contaminated wash water. should be advised if significant spillages	
	ods and materials for inment and cleaning up	:	tainer for disposa Avoid dispersal of with compressed Dust deposits sh	of dust in the air (i.e., clearing dust surfaces	
			3/13		





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				Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	nosphere in sufficient concentration. regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.
Secti	on 7: I	Handling and storage	;		
-	Technical measures		:	causing an explos	precautions, such as electrical grounding
I	_ocal/T	otal ventilation	:		tion is unavailable, use with local exhaust
	Advice	on safe handling	:	Do not get on skir Do not breathe du Do not swallow. Avoid contact with Handle in accorda practice, based or sessment Keep container tig Minimize dust ger Keep container cl Keep away from h Take precautiona Take care to prev environment.	ast. a eyes. ance with good industrial hygiene and safety a the results of the workplace exposure as- as- as- as- as- as- as- as-
		e measures	:	flushing systems a place. When using do no Wash contaminate The effective oper engineering contro appropriate degov industrial hygiene use of administrat	
	Conditi	ons for safe storage	:	Store locked up. Keep tightly close	abelled containers. d. ce with the particular national regulations.
ļ	Materia	als to avoid	:	Do not store with Strong oxidizing a	the following product types: gents

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
flugestone 17-acetate	2529-45-5	TWA	0.2 µg/m3 (OEB 5)	Internal		
		Wipe limit	2 µg /100 cm2	Internal		
Engineering measures	to control at vent leakag All engineer design and protect prod No open ha Totally enclo are required Operations	source (e.g., glove e of compounds in ing controls shou operated in accor lucts, workers, an ndling permitted. osed processes a l. require the use of	ns or containment teo ve boxes/isolators) an nto the workplace. Id be implemented by dance with GMP prind the environment. nd materials transpor appropriate containne eakage of compounds	nd to pre- y facility ciples to t systems nent tech-		
Personal protective equipme	nt					
Respiratory protection Filter type Hand protection	sure assess ommended	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type				
Material	: Chemical-re	esistant gloves				
Remarks Eye protection Skin and body protection	<ul> <li>Wear safety If the work e mists or aer Wear a face potential for aerosols.</li> <li>Work unifor Additional b task being p</li> </ul>	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. 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.				
		riate degowning to	echniques to remove	potentially		

### Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available





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рН		:	No data available	2
Mel	ting point/freezing point	:	No data available	9
	Initial boiling point and boiling range		No data available	9
Flas	sh point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Flar	Flammability (solid, gas)		May form explosiding or other me	ive dust-air mixture during processing, han- eans.
Flar	nmability (liquids)	:	Not applicable	
	Upper explosion limit / Upper flammability limit		No data available	9
	ver explosion limit / Lower nmability limit	:	No data available	9
Vap	our pressure	:	Not applicable	
Rela	ative vapour density	:	Not applicable	
Rela	ative density	:	No data available	9
Der	nsity	:	No data available	9
	ubility(ies) Water solubility	:	partly miscible	
	tition coefficient: n-	:	Not applicable	
	anol/water o-ignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	Not applicable	
Exp	losive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mol	ecular weight	:	No data available	9
Par	ticle size	:	No data available	9



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#### Section 10: Stability and reactivity

: Sta : Ma dli	ot classified as a reactivity hazard. able under normal conditions. ay form explosive dust-air mixture during processing, han- ng or other means. In react with strong oxidizing agents.
	eat, flames and sparks. oid dust formation.
: 0>	idizing agents hazardous decomposition products are known.
	: Sta : Ma dlii Ca : He Av : Ox

## Section 11: Toxicological information

Exposure routes :	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Not classified based on available	e information.
Components:	
flugestone 17-acetate:	
Acute oral toxicity :	Remarks: No data available
Skin corrosion/irritation Not classified based on available Components:	e information.
flugestone 17-acetate:	
Remarks :	No data available
Serious eye damage/eye irrita Not classified based on available Components:	
flugestone 17-acetate:	
Remarks :	No data available Mild eye irritation
Respiratory or skin sensitisati	on
Skin sensitisation	

Not classified based on available information.





rsion	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.202310821883-00004Date of first issue: 28.07.2022	
Resp	iratory sensitisation		
Not cl	assified based on ava	able information.	
Comp	oonents:		
fluge	stone 17-acetate:		
Rema	urks	: No data available	
Chro	nic toxicity		
Germ	cell mutagenicity		
Not cl	assified based on ava	able information.	
Comp	oonents:		
-	stone 17-acetate:		
Geno	toxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Result: negative	
		Test Type: Mouse Lymphoma Result: negative	
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative	
Geno	toxicity in vivo	: Remarks: No data available	
	cell mutagenicity -	: Weight of evidence does not support classification as a group cell mutagen.	ern
Carci	nogenicity		
Not cl	assified based on ava	able information.	
Comp	oonents:		
fluge	stone 17-acetate:		
Rema	ırks	: No data available	
Carcir ment	nogenicity - Assess-	: No data available	
-	<b>oductive toxicity</b> lamage fertility. May d	mage the unborn child.	
Comp	oonents:		
fluge	stone 17-acetate:		
-	s on fertility	<ul> <li>Test Type: One-generation reproduction toxicity study Species: Rabbit Application Route: Oral General Toxicity - Parent: NOAEL: 0.003 mg/kg body wei Fertility: NOAEL: 0.003 mg/kg body weight</li> </ul>	ghi



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Effe men	cts on foetal develop- t	Species: Rat Application R General Toxic Teratogenicit Embryo-foeta	mbryo-foetal development oute: Oral city Maternal: NOAEL: 0.1 mg/kg body weight y: NOAEL: 10 mg/kg body weight Il toxicity: NOAEL: 10 mg/kg body weight mbryo-foetal development
Rep	roductive toxicity - As-	Species: Rab Application R General Toxic Embryo-foeta	bit
sess	sment		animal experiments., Clear evidence of adverse velopment, based on animal experiments.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

May cause damage to organs (Adrenal gland) through prolonged or repeated exposure if swallowed.

#### Components:

#### flugestone 17-acetate:

Exposure routes	: Oral	
Target Organs	: Adrenal gland	
Assessment	: Shown to produce significant health effects in animals at co	)n-
	centrations of >10 to 100 mg/kg bw.	

#### Repeated dose toxicity

#### Components:

#### flugestone 17-acetate:

Species	:	Rat
NOAEL	:	0.2 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	daily
Target Organs	:	Adrenal gland

#### Aspiration toxicity

Not classified based on available information.





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Expe	erience with human exp	posi	Ire	
<u>Com</u>	ponents:			
_	estone 17-acetate: eral Information	:	May cause adve	rse reproductive effects.
Section 1	2: Ecological informat	ion		
Ecot	oxicity			
	ponents:			
	estone 17-acetate:			
-	city to fish (Chronic tox-	:		
M-Fa toxici	actor (Chronic aquatic ity)	:	100,000	
	<b>istence and degradabi</b> l ata available	lity		
	ccumulative potential ata available			
	<b>ility in soil</b> ata available			
	er adverse effects ata available			
Section 1	3: Disposal considerat	ions	6	
Disp	osal methods			
-	te from residues	:		of waste into sewer.
Cont	aminated packaging	:	Empty container dling site for rec	cordance with local regulations. s should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.

### Section 14: Transport information

#### International Regulations

<b>UNRTDG</b>	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,</li></ul>
UN number	N.O.S.
Proper shipping name	(flugestone 17-acetate)





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Labels	ng group s onmentally hazardous	:	9 III 9 yes	
<b>IATA-</b> UN/ID Prope	-	:	UN 3077 Environmentally h (flugestone 17-ad	nazardous substance, solid, n.o.s.
Labels	ng instruction (cargo	:	9 III Miscellaneous 956	
Packii ger ai	ng instruction (passen-	:	956 yes	
UN nu	<b>-Code</b> umber r shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labels EmS (		:	(flugestone 17-ac 9 III 9 F-A, S-F yes	elale)
	port in bulk according	-		OL 73/78 and the IBC Code
Natio	nal Regulations			

<b>NZS 5433</b> UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (flugestone 17-acetate)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



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#### Section 15: Regulatory information

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

#### HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

#### **HSW Controls**

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

Revision Date	:	30.09.2023
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, 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 Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

### SAFETY DATA SHEET



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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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