

Version 3.1	Revision Date: 2023/09/30		S Number: 64258-00012	Date of last issue: 2023/04/04 Date of first issue: 2018/01/11
1. PROD	UCT AND COMPANY IDE	ENT	IFICATION	
Prod	luct name	:	Felbamate Sus	pension Formulation
Man	ufacturer or supplier's d	etai	ls	
Com	Company		Organon & Co.	
Addr	Address		JL Raya Panda Pandaan, Jawa	an KM. 48 1 Timur - Indonesia
Tele	phone	:	+1-551-430-600	00
Eme	Emergency telephone number		+1-215-631-699	99
E-ma	E-mail address		EHSSTEWARD	@organon.com
Rece	ommended use of the ch	nem	ical and restrict	ions on use
	ommended use trictions on use	:	Pharmaceutical Not applicable	

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-phenylpropane-1,3-diyl dicarbamate	25451-15-4	>= 10 -< 30
Cellulose	9004-34-6	< 10

4. FIRST AID MEASURES

If inhaled

: If inhaled, remove to fresh air. Get medical attention if symptoms occur.



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In cas	se of skin contact		water and soap as a precaution. al attention if symptoms occur.				
In cas	se of eye contact	: Flush eye	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
lf swa	If swallowed		al attention if symptoms occur. th thoroughly with water.				
	important symptoms ffects, both acute and ed	: None kno					
Prote	ction of first-aiders to physician		precautions are necessary for first aid responders. ptomatically and supportively.				
5. FIREFIC	GHTING MEASURES						
Suitat	ble extinguishing media		sistant foam oxide (CO2)				
Unsui media	table extinguishing	: None kno					
	fic hazards during fire-	: Exposure	o combustion products may be a hazard to health.				
•	rdous combustion prod-	: Carbon ox Nitrogen o	ides xides (NOx)				
Speci ods	fic extinguishing meth-	cumstanc Use water	uishing measures that are appropriate to local cir- is and the surrounding environment. spray to cool unopened containers. Indamaged containers from fire area if it is safe to do				
	al protective equipment efighters	: Wear self essary.	contained breathing apparatus for firefighting if nec- nal protective equipment.				

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can



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		Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	re recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- terial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures	5	g measures under EXPOSURE ERSONAL PROTECTION section.
	I/Total ventilation e on safe handling	: Handle in accor practice, based sessment Take care to pro-	dequate ventilation. dance with good industrial hygiene and safety on the results of the workplace exposure as- event spills, waste and minimize release to the
	litions for safe storage rials to avoid	Store in accord	y labelled containers. ance with the particular national regulations. th the following product types: g agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters								
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
2-phenylpropane-1,3-diyl di- carbamate	25451-15-4	TWA	400 µg/m3 (OEB 2)	Internal				
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL				

Components with workplace control parameters

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. Laboratory operations do not require special containment.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.

TWA

10 mg/m3

ACGIH

Filter type

: Combined particulates and organic vapour type



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	protection aterial	: Chemical-resi	stant gloves				
Eye protection		If the work env mists or aeros Wear a facesh	: 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 Hygiene measures		: If exposure to eye flushing s ing place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work-				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	Pinkish beige
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
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



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Relat	ive vapour density	:	No data available	e
Relat	ive density	:	No data available	9
Dens	ity	:	No data available	e
	bility(ies) /ater solubility	:	No data available	e
	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	e
Visco Vi	osity scosity, kinematic	:	No data available	e.
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Partie	cle size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

2-phenylpropane-1,3-diyl dicarbamate:



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		LD50 (Mouse):	> 5,000 mg/kg		
Cellu	lose:				
Acute	oral toxicity	: LD50 (Rat): > 5	,000 mg/kg		
Acute inhalation toxicity		Exposure time:	: LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	e dermal toxicity	: LD50 (Rabbit):	> 2,000 mg/kg		
• • • • • • • • • • • • • • • • • • • •	corrosion/irritation lassified based on av	ailable information.			
	us eye damage/eye lassified based on av				
Resp	iratory or skin sens	itisation			
-	sensitisation lassified based on av	ailable information.			
-	iratory sensitisatior lassified based on av				
	cell mutagenicity lassified based on av	ailable information.			
Com	oonents:				
2-phe	enylpropane-1,3-diy	dicarbamate:			
Geno	toxicity in vitro	: Test Type: Bact Result: negative	terial reverse mutation assay (AMES) e		
		Test Type: Chro Result: negative	omosomal aberration e		
Cellu	lose:				
Geno	toxicity in vitro	: Test Type: Back Result: negative	terial reverse mutation assay (AMES)		
		Test Type: In vi Result: negative	tro mammalian cell gene mutation test		
Geno	toxicity in vivo	: Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative	e ite: Ingestion		



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Carcinogenicity

Not classified based on available information.

Components:

2-phenylpropane-1,3-diyl dicarbamate:

Species Application Route Exposure time LOAEL Target Organs	 Mouse Oral 92 weeks 300 mg/kg body weight Liver
Species Application Route Exposure time NOAEL Target Organs Remarks	 Rat Oral 104 weeks 30 mg/kg body weight Liver, Testes Benign tumor(s)

Cellulose:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	72 weeks
Result	:	negative

Reproductive toxicity

Not classified based on available information.

Components:

2-phenylpropane-1,3-diyl dicarbamate:

Effects on fertility :	Test Type: Fertility Species: Rat Application Route: Oral Fertility: NOAEL: 1,000 mg/kg body weight Remarks: No significant adverse effects were reported
Effects on foetal develop- : ment	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 500 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects and ad- verse effects on the offspring were detected only at high ma- ternally toxic doses
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 300 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic doses



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Cellu	lose:					
Effect	s on fertility	: Test Type: One Species: Rat Application Rou Result: negative				
Effect ment	s on foetal develop-	Species: Rat Application Rou	: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative			
	- single exposure assified based on ava	ailable information.				
	- repeated exposure					
	assified based on ava					
Repe	ated dose toxicity					
Com	oonents:					
2-phe	enylpropane-1,3-diyl	dicarbamate:				
Speci	es	: Rat				
NOAE	EL	: 100 mg/kg				
	cation Route	: Oral				
	sure time	: 3 Months				
Targe Rema	et Organs	: Liver	and to organiz			
Reilla	11K5	: May cause dam	lage to organs.			
Speci		: Dog				
NOAE		: 280 mg/kg				
	cation Route		: Oral			
	sure time et Organs	: 3 Months	anyous system			
rarge	et Organs	: Liver, Central n				
Speci		: Rat				
NOAE		: 30 mg/kg				
	cation Route	: Oral				
	sure time	: 1 yr				
Rema	et Organs arks	: Liver : May cause dam	age to organs.			
Speci	es	: Dog				
NOAE		: 30 mg/kg				
	cation Route	: Oral				
Expos	sure time	: 1 yr				
Targe Rema	et Organs arks	: Liver, Central n : May cause dam				
		,				
Cellu		-				
Speci NOAE		: Rat				
	-1	: >= 9,000 mg/kg				



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	cation Route sure time		gestion) Days			
-	ration toxicity lassified based on ava	ilable info	ormation.			
Experience with human exposure						
<u>Com</u>	oonents:					
2-phe	enylpropane-1,3-diyl	dicarban	nate:			
Ingestion :			arget Organs /mptoms: and ess, insomnia	: Liver prexia, Nausea, Vomiting, Headache, Dizzi- , Drowsiness		
. ECOL	OGICAL INFORMATI	ON				
Ecoto	oxicity					
Com	oonents:					
	enylpropane-1,3-diyl	dicarban	nate:			
-	ity to fish	: LC E>	C50 (Oncorhy (posure time:	/nchus mykiss (rainbow trout)): > 100 mg/l 96 h 9 Test Guideline 203		
	Toxicity to daphnia and other : aquatic invertebrates		EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
Cellu	lose:					
	ity to fish	E>	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials			
Persi	stence and degrada	oility				
<u>Com</u>	oonents:					
-	enylpropane-1,3-diyl ity in water		n ate: /drolysis: < 1	0 %(5 d)		
Cellu Biode	lose: gradability	: Re	esult: Readily	v biodegradable.		
Bioad	cumulative potentia	I				
	oonents:					
	enylpropane-1,3-diyl		acto.			



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	ion coefficient: n- ol/water	:	log Pow: 0.381			
	lity in soil ata available					
	r adverse effects ata available					
3. DISPC	SAL CONSIDERATION	IS				
Dispo	osal methods					
Wast	e from residues	:	Dispose of in ac	of waste into sewer. cordance with local regulations.		
Conta	aminated packaging	:	Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.			
4. TRAN	SPORT INFORMATION	I				
Interi	national Regulations					
			Neteralizable			
	umber er shipping name	:	Not applicable Not applicable			
Class		÷	Not applicable			
	idiary risk	:	Not applicable			
Deals	ng group	:	Not applicable			
Раскі			Not applicable			
Label	S	:	not applicable			
	-	:	not applicable			
Label	-DGR	:				
Label IATA UN/IE	-DGR	:	Not applicable Not applicable			
Label IATA UN/IE Prope Class	-DGR D No. er shipping name	:	Not applicable Not applicable Not applicable			
Label IATA UN/IE Prope Class Subsi	-DGR D No. er shipping name idiary risk	······	Not applicable Not applicable Not applicable Not applicable			
Label IATA UN/IE Prope Class Subsi Packi	-DGR O No. er shipping name idiary risk ng group	:	Not applicable Not applicable Not applicable Not applicable Not applicable			
Label IATA UN/IE Prope Class Subs Packi Label	-DGR O No. er shipping name idiary risk ing group s		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable			
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Label IATA UN/IE Prope Class Subsi Packi Label Packi aircra Packi ger ai	-DGR O No. er shipping name idiary risk ng group s ng instruction (cargo ft) ng instruction (passen-		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable			
Label IATA UN/IE Prope Class Subs Packi Label Packi aircra Packi ger ai	-DGR O No. er shipping name idiary risk ng group s ng instruction (cargo ft) ng instruction (passen- ircraft) G-Code umber		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable			
Label IATA UN/IE Prope Class Subsi Packi aircra Packi ger ai IMDG UN ni Prope	-DGR D No. er shipping name idiary risk ng group s ng instruction (cargo ff) ng instruction (passen- ircraft) G-Code umber er shipping name		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable			
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Label IATA UN/IE Prope Class Subsi Packi aircra Packi ger ai UN ni Prope Class Subsi	-DGR D No. er shipping name idiary risk ng group s ng instruction (cargo ff) ng instruction (passen- ircraft) G-Code umber er shipping name idiary risk ng group s		Not applicable Not applicable			



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Trans	port in bulk accord	ing to Annex II of MAI	RPOL 73/78 and the IBC Code
	pplicable for product	-	
Speci	ial precautions for ι	iser	
Not a	oplicable		
5. REGU	LATORY INFORMA	ΓΙΟΝ	
Safet ture	y, health and envirc	onmental regulations/l	egislation specific for the substance or mi
ter of	Industry Regulation		PER/4/2013 concerning the Revision of Min /2009 concerning Globally Harmonized Sys als.
-	lation of the Ministe dous to Health	er of Health No. 472 of	1996 on the Safeguarding of Substances
Hazar	dous substances the	t must be registered	: Not applicable
Gove stanc	-	No. 74 of 2001 on the	Management of Hazardous and Toxic Sub-
Hazar	dous substances ap	proved for use	: Glycerine
Prohit	pited substances		: Not applicable
Restri	cted substances		: Not applicable
Regu Mater		y of Trade No. 7 of 20	22 on Distribution and Control of Hazardo
	of hazardous materia bl, Annex I	als subject to distribution	n and : Not applicable
	of hazardous materia bl, Annex II	als subject to distribution	n and : Not applicable
The c AICS	omponents of this	product are reported i : not determined	n the following inventories:
DSL		: not determined	
IECS	0	: not determined	
6. OTHE	R INFORMATION		
Revis	ion Date	: 2023/09/30	
Furth	er information		

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD



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	compile the Sheet	Safety Data		eChem Portal sea cy, http://echa.eu	arch results and European Chemicals Agen- opa.eu/
[Date format		:	yyyy/mm/dd	
F	Full text of	other abbreviati	ons		
-	ACGIH ID OEL		:	USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits	
-	ACGIH / TW D OEL / NA		:	8-hour, time-weig Long term exposu	

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; 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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