

Versic 1.6	on Revision Date: 28.09.2020		S Number: 8746-00007	Date of last issue: 13.09.2019 Date of first issue: 13.12.2017	
1. PR	ODUCT AND COMPANY II	DENT	IFICATION		
P	roduct name	:	Felbamate Solid Formulation		
N	lanufacturer or supplier's	detai	ls		
Company		:	Organon & Co.		
Address		:	30 Hudson Stree Jersey City, New	t, 33nd floor Jersey, U.S.A 07302	
Telephone		:	551-430-6000		
Emergency telephone number		er :	215-631-6999		
E-mail address		:	EHSSTEWARD	@organon.com	
R	ecommended use of the	chemi	ical and restriction	ons on use	
Recommended use		:	Pharmaceutical		

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

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 combustible dust concentrations in air.

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	>= 50 - < 70
Cellulose	9004-34-6	>= 5 - < 10

4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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		vice immediately. When symptoms persist or in all cases of doubt seek medi advice.	ical			
lf inha	aled	If inhaled, remove to fresh air.Get medical attention if symptoms occur.Wash with water and soap.				
In cas	se of skin contact					
In cas	se of eye contact	Get medical attention if symptoms occur.If in eyes, rinse well with water.				
lf swa	llowed	 Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. 				
and e delaye	important symptoms ffects, both acute and ed ction of first-aiders	 Rinse mouth thoroughly with water. Contact with dust can cause mechanical irritation or drying o the skin. Dust contact with the eyes can lead to mechanical irritation. No special precautions are necessary for first aid responders 				
	to physician	: Treat symptomatically and supportively.	5101			
5. FIREFIC	GHTING MEASURES					
	ole extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsui media	itable extinguishing	: High volume water jet				
Speci fightin	fic hazards during fire- ng	 Avoid generating dust; fine dust dispersed in air in sufficier concentrations, and in the presence of an ignition source is potential dust explosion hazard. Do not use a solid water stream as it may scatter and spre fire. Exposure to combustion products may be a hazard to heal 	s a ead			
Hazaı ucts	rdous combustion prod-	: Carbon oxides Nitrogen oxides (NOx)				
Speci ods	fic extinguishing meth-	 Use extinguishing measures that are appropriate to local c cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area. 				
	al protective equipment efighters	 Wear self-contained breathing apparatus for firefighting if r essary. Use personal protective equipment. 	iec-			

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.



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					e of contaminated wash water. should be advised if significant spillages ed.	
	Methods and materials for containment and cleaning up		:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.		
7. HA	ANDLIN	NG AND STORAGE				
		cal measures	:	causing an explose Provide adequate and bonding, or in	precautions, such as electrical grounding ert atmospheres.	
		otal ventilation on safe handling	:	practice, based or sessment Minimize dust ger Keep container cl Keep away from h Take precautiona		
		ons for safe storage als to avoid	:	Keep in properly I Store in accordan	abelled containers. ce with the particular national regulations. the following product types: gents	

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	TWA	10 mg/m3	ACGIH

Engineering measures

: Use feasible engineering controls to minimize exposure to compound.



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		design and o	ng controls should be implemented by facility perated in accordance with GMP principles to cts, workers, and the environment.					
Pers	onal protective equip	ment						
Respiratory protection		sure assessm	: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.					
	lter type	: Particulates t						
	l protection laterial	: Chemical-res	Chemical-resistant gloves					
Eye protection		If the work en mists or aeros Wear a faces	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 flushing syste place. When using o Wash contam The effective engineering o appropriate d industrial hyg	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working					

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	No data available
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	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Flammability (liquids)	:	No data available

SAFETY DATA SHEET



Felbamate Solid Formulation

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		explosion limit / Upper bility limit	:	No data available	
	Lower explosion limit / Lower flammability limit		:	No data available)
V	/apour	pressure	:	Not applicable	
F	Relative	e vapour density	:	Not applicable	
F	Relative	e density	:	No data available)
C	Density		:	No data available	
S	Solubilit Wate	ry(ies) er solubility	:	No data available	9
	Partitior	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
C	Decom	position temperature	:	No data available)
V	/iscosit Visc	y osity, kinematic	:	Not applicable	
E	Explosi	ve properties	:	Not explosive	
С	Dxidizir	g properties	:	The substance of	r mixture is not classified as oxidizing.
C	Dust de	flagration index (Kst)	:	192 m.b_/s	
N	Minimu	m ignition energy	:	3 - 5 mJ	
F	Particle	size	:	No data available)

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form combustible dust concentrations in air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact



rsion	Revision Date: 28.09.2020	SDS Number: 2338746-00007	Date of last issue: 13.09.2019 Date of first issue: 13.12.2017
		Ingestion Eye contact	
Acute	e toxicity		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
2-phe	enylpropane-1,3-diyl	dicarbamate:	
Acute	oral toxicity	: LD50 (Rat): > 5	5,000 mg/kg
		LD50 (Mouse):	> 5,000 mg/kg
Cellu	lose:		
Acute	e oral toxicity	: LD50 (Rat): > 5	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 5 Exposure time: Test atmosphe	4 h
Acute	e dermal toxicity	: LD50 (Rabbit):	> 2,000 mg/kg
Serio Not c	lassified based on ava p us eye damage/eye i lassified based on ava iratory or skin sensi	irritation ailable information.	
-	sensitisation		
	lassified based on ava	ailable information	
Resp	iratory sensitisation lassified based on ava		
Germ	cell mutagenicity		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
2-phe	enylpropane-1,3-diyl	dicarbamate:	
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
		Test Type: Chr Result: negativ	omosomal aberration e
Cellu			
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
		Test Type: In v Result: negativ	itro mammalian cell gene mutation test e



ersion S	Revision Date: 28.09.2020	SDS Number: 2338746-00007	Date of last issue: 13.09.2019 Date of first issue: 13.12.2017		
Genotoxicity in vivo		cytogenetic as Species: Mou Application Re	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative		
	inogenicity lassified based on ava	ilable information.			
<u>Com</u>	ponents:				
2-phe	enylpropane-1,3-diyl	dicarbamate:			
Spec	ies	: Mouse			
Application Route		: Oral			
Exposure time		: 92 weeks			
		: 300 mg/kg bo	dy weight		
Targe	et Organs	: Liver			
Spec	ies	: Rat			
Application Route Exposure time		: Oral			
		: 104 weeks			
NOA		: 30 mg/kg bod	y weight		
Target Organs		: Liver, Testes			
Rema	arks	: Benign tumor	(\$)		
Cellu	llose:				
Spec	ies	: Rat			
Application Route Exposure time		: Ingestion			
		: 72 weeks			
Resu	lt	: negative			
•	oductive toxicity				
	lassified based on ava ponents:	illable information.			
	enylpropane-1,3-diyl	dicarbamate:			
Effec	ts on fertility	: Test Type: Fe	rtility		
		Species: Rat			
		Application R			
			EL: 1,000 mg/kg body weight		
		Remarks: No	significant adverse effects were reported		
Effec	ts on foetal develop-	: Test Type: De	evelopment		
ment		Species: Rat			
		Application R			
			al Toxicity: NOAEL: 500 mg/kg body weight		
		verse effects	ced foetal weight, Embryotoxic effects and ad- on the offspring were detected only at high ma		
		ternally toxic	doses		
		ternally toxic o Test Type: De Species: Rab	evelopment		



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		Application Route: Oral Developmental Toxicity: NOAEL: 300 mg/kg body v Result: Embryotoxic effects and adverse effects on spring were detected only at high maternally toxic o	the off-	
Cellu	lloso.			
•••••	ts on fertility	: Test Type: One-generation reproduction toxicity stu Species: Rat Application Route: Ingestion	ıdy	
		Result: negative		
Effect ment	ts on foetal develop-	 Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative 		
	Γ - single exposure lassified based on ava	lable information.		
STO	F - repeated exposur			
	lassified based on ava	able information.		
Repe	ated dose toxicity			
-	ponents:			
		licentemates		
-	enylpropane-1,3-diyl			
Speci NOAI		: Rat : 100 mg/kg		
	cation Route	: Oral		
	sure time	: 3 Months		
Targe	et Organs	: Liver		
Rema	arks	: May cause damage to organs.		
Speci	ies	: Dog		
NOA		: 280 mg/kg		
Applie	cation Route	: Oral		
	sure time	: 3 Months		
Targe	et Organs	: Liver, Central nervous system		
Speci	ies	: Rat		
NOA		: 30 mg/kg		
	cation Route	: Oral		
	sure time	: 1 yr		
	et Organs	: Liver		
	arks	: May cause damage to organs.		
Rema				
Rema		: Dog		
	ies	: Dog : 30 mg/kg		
Spec NOAI Applie	ies EL cation Route	: 30 mg/kg : Oral		
Speci NOAI Applic Expos	ies EL cation Route sure time	: 30 mg/kg : Oral : 1 yr		
Speci NOAI Applic Expos	ies EL cation Route sure time et Organs	: 30 mg/kg : Oral		



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Cellu	llose:			
Spec		:	Rat	
NOA		÷	>= 9,000 mg/kg	
	Application Route : Exposure time :		Ingestion 90 Days	
-	ration toxicity			
Not c	lassified based on availa	ble	information.	
Expe	rience with human exp	osı	ire	
Com	ponents:			
2-phe	enylpropane-1,3-diyl di	carl	pamate:	
Inges	stion	:	Target Organs: Li Symptoms: anore ness, insomnia, D	xia, Nausea, Vomiting, Headache, Dizzi-
2. ECOL	OGICAL INFORMATIO	N		
Ecot	oxicity			
Com	ponents:			
		I		
-	enylpropane-1,3-diyl di aity to fish	:		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Cellu	llose:			
	ity to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Persi	istence and degradabil	ity		
Com	ponents:			
		carl	pamate:	
	envlpropane-1.3-divl di			
2-phe	enylpropane-1,3-diyl di lity in water	:	Hydrolysis: < 10 %	%(5 d)
2-phe Stabi Cellu	•••••	:	Hydrolysis: < 10 % Result: Readily bi	
2-phe Stabi Cellu Biode	lity in water	:		
2-phe Stabi Cellu Biode Bioae	lity in water Ilose: egradability	:		



/ersion .6	Revision Date: 28.09.2020	SDS Number: 2338746-00007	Date of last issue: 13.09.2019 Date of first issue: 13.12.2017	
Partition coefficient: n- octanol/water		: log Pow: 0.38	31	
	lity in soil			
	ata available			
Other adverse effects No data available				
3. DISPO	DSAL CONSIDERATIO)NS		
Disposal methods Waste from residues Contaminated packaging		: Empty contai dling site for	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste har dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	
4. TRAN	SPORT INFORMATIO			
Inter	national Regulations			
UNR Not re	TDG egulated as a dangerou	us good		
	-DGR egulated as a dangerou	us good		
-	-Code egulated as a dangerou	us good		
	sport in bulk accordir	-	nts	
5. REGU	LATORY INFORMATI	ON		
Safet ture	ty, health and environ	mental regulations	s/legislation specific for the substance or mix	
The of AICS	•	roduct are reported : not determine	d in the following inventories: ed	
		: not determine	ed	
DSL			ad a start and a start	
DSL IECS	С	: not determine	50	
IECS		: not determine		



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Date format		: dd.mm.yyyy		
Full t	ext of other abbrevia	ations		
ACGIH		: USA. ACGI	: USA. ACGIH Threshold Limit Values (TLV)	
ACGI	H / TWA	: 8-hour, time	-weighted average	

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; 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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