

Version 1.6	Revision Date: 28.09.2020		S Number: 64241-00007	Date of last issue: 13.09.2019 Date of first issue: 11.01.2018			
Sectior	1: Identification						
Pro	Product name		Felbamate Susp	Felbamate Suspension Formulation			
Ма	nufacturer or supplier's	deta	ils				
Co	Company		Organon & Co.				
Address		:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302				
Telephone		:	551-430-6000				
Err	Emergency telephone number		215-631-6999				
E-r	E-mail address		EHSSTEWARD@organon.com				
Re	commended use of the o	chem	ical and restriction	ons on use			
Recommended use :		:	Pharmaceutical				

Section 2: Hazard identification

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

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycerine	56-81-5	>= 10 -< 30
2-phenylpropane-1,3-diyl dicarbamate	25451-15-4	>= 10 -< 30
Cellulose	9004-34-6	< 10

Section 4: First-aid measures

If inhaled	:	
In case of skin contact	:	Get medical attention if symptoms occur. 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. Get medical attention if symptoms occur.



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and e	important symptoms ffects, both acute and	:	Rinse mouth thore None known.	oughly with water.
	ed ction of first-aiders to physician	:		itions are necessary for first aid responders. cally and supportively.
Section 5:	Fire-fighting measure	S		
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
Unsui media	table extinguishing	:	None known.	
	fic hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
	dous combustion prod-	:	Carbon oxides Nitrogen oxides (I	NOx)
Speci ods	fic extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	al protective equipment efighters	:	essary.	ed breathing apparatus for firefighting if nec-
Section 6:	Accidental release me	easi	ures	
tive e	nal precautions, protec- quipment and emer- procedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	onmental 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
	ods and materials for inment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national n posal of this mate employed in the c mine which regula	a absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding



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		certain local or n	ational requirements.			
Section	7: Handling and storage	9				
Tec	hnical measures		measures under EXPOSURE RSONAL PROTECTION section.			
Loc	al/Total ventilation					
	ice on safe handling	 Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safet practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment. 				
Hyg	iene measures	 If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 				
Cor	ditions for safe storage		: Keep in properly labelled containers. Store in accordance with the particular national regulations.			
Mat	erials to avoid	: Do not store with	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing 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
Glycerine	56-81-5	WES-TWA (Mist)	10 mg/m3	NZ OEL
2-phenylpropane-1,3-diyl di- carbamate	25451-15-4	TWA	400 µg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH

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.



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	ter type	:	Combined particu	lates and organic vapour type			
	Hand protection Material Eye protection		 Chemical-resistant gloves 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. 				
Eye p							
Skin a	and body protection	:	Work uniform or la	aboratory coat.			
Section 9:	Physical and chemica	l pr	operties				
Арреа	arance	:	suspension				
Colou	r	:	Pinkish beige				
Odou	r	:	No data available	9			
Odou	r Threshold	:	No data available	9			
рН		:	No data available	9			
Meltin	g point/freezing point	:	No data available	9			
Initial range	boiling point and boiling	:	No data available	9			
Flash	point	:	No data available	9			
Evapo	pration rate	:	No data available	9			
Flamr	nability (solid, gas)	:	Not applicable				
Flamr	nability (liquids)	:	No data available	9			
	explosion limit / Upper ability limit	:	No data available	9			
	explosion limit / Lower ability limit	:	No data available	9			
Vapou	ur pressure	:	No data available	9			
Relati	ve vapour density	:	No data available	9			
Relati	ve density	:	No data available	9			
Densi	ty	:	No data available	9			
	ility(ies) ater solubility	:	No data available	9			
Partiti	on coefficient: n-	:	Not applicable				

SAFETY DATA SHEET



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C	l/water Inition temperature	: No data avai : No data avai	
	ity cosity, kinematic ive properties	: No data avai : Not explosive	
Oxidizi Particle	ng properties	: The substan	ce or mixture is not classified as oxidizing. le

Section 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.

Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Components:		
Glycerine:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Guinea pig): > 5,000 mg/kg
2-phenylpropane-1,3-diyl di	car	bamate:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Acute	e dermal toxicity	: LD50 (Rabbit):	> 2,000 mg/kg
Skin	corrosion/irritation		
Not c	lassified based on av	ailable information.	
Com	ponents:		
Glyce	erine:		
Speci Resu		: Rabbit : No skin irritation	1
	ous eye damage/eye lassified based on av		
Com	ponents:		
Glyce	erine:		
Speci Resu		: Rabbit : No eye irritatior)
Resp	iratory or skin sens	itisation	
Skin	sensitisation		
Not c	lassified based on av	ailable information.	
-	iratory sensitisatior lassified based on av		
Chro	nic toxicity		
	n cell mutagenicity lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Glyce	erine:		
-	toxicity in vitro	: Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
		Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: Chro Result: negative	omosome aberration test in vitro e
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
2-phe	enylpropane-1,3-diyl		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e



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		Test Type: Chr	omosomal aberration				
		Result: negative					
Cellu	lose:						
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)				
		Ū	tro mammalian cell gene mutation test				
		Result: negative					
Geno	toxicity in vivo		nmalian erythrocyte micronucleus test (in viv				
		cytogenetic ass Species: Mouse					
		Application Rou	ite: Ingestion				
		Result: negative					
	nogenicity						
	assified based on ava	ailable information.					
-	<u>oonents:</u>						
Glyce							
Speci		: Rat					
	cation Route sure time	: 2 Years	: Ingestion				
Resul		: negative					
2-phe	enylpropane-1,3-diyl	dicarbamate:					
Speci		: Mouse					
	cation Route	: Oral					
	sure time	: 92 weeks					
LOAE		: 300 mg/kg body	/ weight				
Targe	et Organs	: Liver					
Speci		: Rat					
	cation Route	: Oral					
	sure time	: 104 weeks					
		: 30 mg/kg body	weight				
Rema	et Organs	: Liver, Testes					
Rema	IIKS	: Benign tumor(s)				
Cellu							
Speci		: Rat					
	cation Route	: Ingestion					
Exposure time : 72 weeks Result : negative							
Resul	ι	: negative					
-	oductive toxicity						



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<u>Com</u>	ponents:					
-	erine: ts on fortility		Test Type: Two	apparation reproduction toxicity study		
LIIEC	Effects on fertility		 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative 			
Effec ment	ts on foetal develop-	:	Test Type: Emb Species: Rat Application Rou Result: negative			
2-ph	enylpropane-1,3-diyl d	licarl	pamate:			
Effec	ts on fertility	:				
Effec ment	ts on foetal develop-	:	Result: Reduced	te: Oral Toxicity: NOAEL: 500 mg/kg body weight d foetal weight, Embryotoxic effects and ad- the offspring were detected only at high ma-		
			Result: Embryot			
Cellu	llose:					
Effec	ts on fertility	:	Test Type: One Species: Rat Application Rou Result: negative			
Effec ment	ts on foetal develop-	:	Test Type: Ferti Species: Rat Application Rou Result: negative			

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



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Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Glyce	erine:		
Speci	es	: Rat	
NOAE		: 0.167 mg/l	
LOAE	EL	: 0.622 mg/l	
	cation Route	: inhalation (dust/	mist/fume)
Expos	sure time	: 13 Weeks	
Speci	es	: Rat	
NOAE		: 8,000 - 10,000 n	ng/kg
Applic	cation Route	: Ingestion	
Expos	sure time	: 2 yr	
Speci		: Rabbit	
NOAE	EL	: 5,040 mg/kg	
	cation Route	: Skin contact	
Expos	sure time	: 45 Weeks	
2-phe	enylpropane-1,3-diyl	dicarbamate:	
Speci		: Rat	
NOAE		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 3 Months	
	et Organs	: Liver	
Rema		: May cause dam	age to organs.
Speci	es	: Dog	
NOAE	EL	: 280 mg/kg	
Applic	cation Route	: Oral	
	sure time	: 3 Months	
Targe	et Organs	: Liver, Central ne	ervous system
Speci		: Rat	
NOAE		: 30 mg/kg	
	cation Route	: Oral	
	sure time	: 1 yr	
	et Organs	: Liver	
Rema	arks	: May cause dam	age to organs.
Speci		: Dog	
NOAE		: 30 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 1 yr : Liver, Central ne	arvous system
Rema		: May cause dam	
Cellu			
Speci		: Rat	
NOAE		: >= 9,000 mg/kg	
	cation Route	: Ingestion	
Expos	sure time	: 90 Days	



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		n.			
onents:					
	carbamate:				
Ingestion : Target Organs: Liver Symptoms: anorexia, Nausea, Vomiting, Headache, Dizzi- ness, insomnia, Drowsiness					
: Ecological information	on				
xicity					
onents:					
rine:					
ty to fish		ncorhynchus mykiss (rainbow trout)): 54,000 mg/l e time: 96 h			
ty to daphnia and other c invertebrates		EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h			
ty to microorganisms	Exposure	NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8			
nylpropane-1,3-diyl di	carbamate:				
ty to fish	: LC50 (Or Exposure	ncorhynchus mykiss (rainbow trout)): > 100 mg/l e time: 96 h OECD Test Guideline 203			
ty to daphnia and other c invertebrates	Exposure	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
ose:					
ty to fish	Exposure	 LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials 			
stence and degradabili	ty				
onents:					
rine:					
gradability	Biodegra Exposure	eadily biodegradable. dation: 92 % e time: 30 d OECD Test Guideline 301D			
	28.09.2020 ation toxicity assified based on availa ience with human exp onents: nylpropane-1,3-diyl did ion : Ecological information xicity onents: rine: ty to daphnia and other c invertebrates ty to microorganisms nylpropane-1,3-diyl did ty to fish ty to daphnia and other c invertebrates ty to fish ty to daphnia and other c invertebrates ty to fish ty to daphnia and other c invertebrates ty to fish ty to fish ty to fish astence and degradability onents: rine:	28.09.2020 2364241-000 ation toxicity assified based on available information ience with human exposure onents: nylpropane-1,3-diyl dicarbamate: ion : Target Or Symptom ness, insu ion : Target Or Symptom ness, insu ice cological information : Target Or Symptom ness, insu xicity : Target Or Symptom ness, insu onents: : Target Or Symptom ness, insu rine: : Ecological information xicity : Ecological information xicity : Ecological information vito fish : LC50 (Or Exposure ty to daphnia and other : EC50 (Da Exposure ty to microorganisms : NOEC (P Exposure mylpropane-1,3-diyl dicarbamate: : NOEC (P Exposure ty to fish : LC50 (Or Exposure ty to fish : LC50 (Da Exposure ty to daphnia and other : EC50 (Da Exposure ty to fish : LC50 (Or Exposure ty to fish			



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2-phe	nylpropane-1,3-diyl	dicarbamate:					
Stabil	ity in water	: Hydrolysis: < 1	: Hydrolysis: < 10 %(5 d)				
Cellu	lose:						
Biodegradability		: Result: Readily	: Result: Readily biodegradable.				
Bioac	cumulative potentia	al					
<u>Comp</u>	oonents:						
Glyce	erine:						
	on coefficient: n- ol/water	: log Pow: -1.75					
2-phe	nylpropane-1,3-diyl	dicarbamate:					
	on coefficient: n- ol/water	: log Pow: 0.381					
Mobil	ity in soil						
No da	ta available						
Other	adverse effects						
No da	ta available						

Disposal methods		
Waste from residues	:	Dispos

Waste from residues	:	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.

Section 14: Transport information

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

NZS 5433

Not regulated as a dangerous good



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Section 15: Regulatory information

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

HSNO Approval Number

Not applicable

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

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 Agen- cy, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants		
ACGIH / TWA	:	8-hour, time-weighted average		
NZ OEL / WES-TWA	:	Workplace Exposure Standard - 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 Or-



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ganisation 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.

NZ / EN