

Versio 1.7		vision Date: .04.2021		9S Number: 32950-00008	Date of last issue: 28.09.2020 Date of first issue: 13.12.2017
SECT	ION 1: Io	dentification of t	he	substance/mixtu	ire and of the company/undertaking
	oduct ide rade nam		:	Felbamate Solid F	ormulation
1.2 Re	levant id	entified uses of th	e s	ubstance or mixtu	ire and uses advised against
-	se of the ance/Mix		:	Pharmaceutical	
1.3 De	tails of th	ne supplier of the	safe	ety data sheet	
C	ompany		:	Organon & Co. 30 Hudson Street 07302 Jersey Cit	, 33nd floor y, New Jersey, U.S.A
Te	elephone		:	551-430-6000	
		ress of person for the SDS	:	EHSSTEWARD@	organon.com
1.4 Em	nergency	telephone numbe	er		

215-631-6999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)



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2-pheny mate	/lpropane-1,3-diyl d	licarba-	Index-No. Registratio 25451-15-4 247-001-4			>= 50 - < 70	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks	: Contact with dust can cause mechanical irritation or drying of
	the skin.
	Dust contact with the eyes can lead to mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet





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5.2	Special	hazards arising from	the	substance or mix	xture
•		:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health.		
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N	NOx)
5.3	Advice	for firefighters			
	Special for firef	protective equipment ighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
	Specific ods	c 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for 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.

SAFETY DATA SHEET



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	ence to other sections ons: 7, 8, 11, 12 and 13.			
SECTIO	N 7: Handling and sto	orage		
7.1 Preca	utions for safe handlin	g		
Tech	nical measures	causing Provide	an explosi adequate	nay accumulate and ignite suspended dust sion. a precautions, such as electrical grounding nert atmospheres.
Local	I/Total ventilation			equate ventilation.
Advic	ene measures	 Do not b Handle i practice sessmel Minimize Keep co Keep av Take pro Take ca environr If expos flushing place. W nated cl The effe enginee 	reathe du in accorda , based o nt e dust ge ntainer cl vay from ecautiona re to prev nent. ure to che systems /hen usin othing be ctive ope ring contr	ust. ance with good industrial hygiene and safety in the results of the workplace exposure as- meration and accumulation. losed when not in use. heat and sources of ignition. ry measures against static discharges. rent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working g do not eat, drink or smoke. Wash contami- fore re-use. ration of a facility should include review of rols, proper personal protective equipment,
		industria	al hygiene	wning and decontamination procedures, monitoring, medical surveillance and the tive controls.
7.2 Condi	itions for safe storage,	including an	y incom	patibilities
	irements for storage s and containers			labelled containers. Store in accordance with onal regulations.
Advid	ce on common storage		store with oxidizing a	the following product types: agents
7.3 Speci	fic end use(s)			
-	ific use(s)	: No data	available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-phenylpropane- 1,3-diyl dicarba- mate	25451-15-4	TWA	400 μg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	TWA OEL-RL	5 mg/m3	ZA OEL



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		(Respirable d	ust)		
	Furth	er information: Recomn	nended Limit		
		TWA OEL-RL	. 10 mg/	/m3	ZA OEL
		(inhalable due	st)		
	Further information: Recommended Limit				
		STEL OEL-R	L 20 mg/	/m3	ZA OEL
	Further information: Recommended Limit				

8.2 Exposure controls

Engineering measures

Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Personal protective equipment

Eye protection	:	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.
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Upper explosion limit / Upper flammability limit	:	No data available

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		explosion limit / Lower ability limit	:	No data available	e
	Vapou	pressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	e
	Density	/	:	No data available	e
	Partitio octano Auto-ig Decom Viscosi Visco Explos	ter solubility n coefficient: n- l/water inition temperature iposition temperature	::	No data available Not applicable No data available No data available Not applicable Not explosive The substance o	e
9.2	Other ir	nformation			
	Flamm	ability (liquids)	:	No data available	9
	Dust de	eflagration index (Kst)	:	192 m.b_/s	
	Minimu	im ignition energy	:	3 - 5 mJ	
	Particle	e size	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	May form combustible dust concentrations in air. Can react with strong oxidizing agents.
10.4 Conditions to avoid		
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.

10.5 Incompatible materials

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Mater	ials to avoid	: Oxidizing ag	ents
No ha	rdous decompositio	on products are know	vn.
	I 11: Toxicological		
	mation on toxicolog		
expos	nation on likely routes sure	of : Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on ava	allable information	
	onents:		
2-phe	enylpropane-1,3-diyl	dicarbamate:	
-	oral toxicity		• 5.000 mg/kg
		LD50 (Mouse	e): > 5.000 mg/kg
-	corrosion/irritation assified based on ava	ailable information.	
Serio	us eye damage/eye	irritation	
Not cl	assified based on ava	ailable information.	
Resp	iratory or skin sensi	tisation	
-	sensitisation assified based on ava	ailable information.	
-	iratory sensitisation		
	assified based on ava	ailable information.	
	cell mutagenicity assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
2-phe	enylpropane-1,3-diyl	dicarbamate:	
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: Cl Result: negat	hromosomal aberration ive
Carci	nogenicity		
Not cl	assified based on ava	ailable information.	



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<u>Com</u>	oonents:			
2-phe	enylpropane-1,3-diyl	dicarl	pamate:	
Speci	es	:	Mouse	
	cation Route	:	Oral	
	sure time	:	92 weeks	
LOAE	:L et Organs	÷	300 mg/kg body Liver	weight
raige	a Organs	•	LIVEI	
Speci		:	Rat	
	cation Route	:	Oral	
	sure time	:	104 weeks	
NOAE		:	30 mg/kg body v	veight
Rema	et Organs	÷	Liver, Testes Benign tumor(s)	
Rema	11K5	•	Denign turnor(s)	
	assified based on ava ponents:	ailable	information.	
2-phe	enylpropane-1,3-diyl	dicarl	pamate:	
Effect	s on fertility	:		
Effect	s on foetal develop-	:	Test Type: Deve	elopment
ment			Species: Rat	
			Application Rou	
				Toxicity: NOAEL: 500 mg/kg body weight
				d foetal weight, Embryotoxic effects and ad the offspring were detected only at high m
			Test Type: Deve	
			Species: Rabbit	
			Application Rou	
				Toxicity: NOAEL: 300 mg/kg body weight oxic effects and adverse effects on the off-
				ected only at high maternally toxic doses
STOT	- single exposure			

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2-phenylpropane-1,3-diyl dicarbamate: Species : Rat



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/ -	Exposi	ation Route ure time Organs		100 mg/kg Oral 3 Months Liver May cause dama	ge to organs.
 / 	Exposi			Dog 280 mg/kg Oral 3 Months Liver, Central ner	vous system
	Exposi	_ ation Route ure time Organs		Rat 30 mg/kg Oral 1 yr Liver May cause dama	ge to organs.
	Exposi	_ ation Route ure time Organs		Dog 30 mg/kg Oral 1 yr Liver, Central ner May cause dama	
	•	tion toxicity ssified based on availa	able	information.	
I	Experi	ence with human exp	osi	ıre	
9	Compo	onents:			
	2-phen Ingestie	n ylpropane-1,3-diyl di on	icari	bamate: Target Organs: L	iver
-	3-54	-	-		· · · · · · · · · · · · · · · · · · ·

Target Organs: Liver Symptoms: anorexia, Nausea, Vomiting, Headache, Dizziness, insomnia, Drowsiness

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-phenylpropane-1,3-diyl dicarbamate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD 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



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12.2 Pers	istence and degradab	lity	
<u>Com</u>	ponents:		
2-ph	enylpropane-1,3-diyl d	icarbamate:	
Stabi	lity in water	: Hydrolysis: <	10 %(5 d)
12.3 Bioa	ccumulative potential		
<u>Com</u>	ponents:		
2-ph	enylpropane-1,3-diyl d	icarbamate:	
	tion coefficient: n- nol/water	: log Pow: 0,38	1
	ility in soil		
No da	ata available		
12.5 Resu	ults of PBT and vPvB a	issessment	
Prod	uct:		
Asse	ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Othe	er adverse effects		
Prod	uct:		
	perine disrupting poten-	ered to have e REACH Article	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.
SECTIO	N 13: Disposal consi	derations	
40.4.114			
	te treatment methods	· Dianaga of its	accordance with local requilations
Prod		According to t are not produc Waste codes discussion wit	accordance with local regulations. he European Waste Catalogue, Waste Codes ct specific, but application specific. should be assigned by the user, preferably in h the waste disposal authorities.
Conta	aminated packaging	dling site for r	ners should be taken to an approved waste han ecycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

If not otherwise specified: Dispose of as unused product.



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	oper shipping name gulated as a dangerous	s good				
-	14.3 Transport hazard class(es) Not regulated as a dangerous good					
	14.4 Packing group Not regulated as a dangerous good					
14.5 Environmental hazards Not regulated as a dangerous good						
14.6 Special precautions for user Not applicable						
14.7 Trans Remar	port in bulk according ˈks	•	ol and the IBC Code r product as supplied.			

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			
IECSC	: not determined			

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ZA OEL	:	South Africa. Hazardous Chemical Substances Regulations, Occupational Exposure Limits
ZA OEL / TWA OEL-RL ZA OEL / STEL OEL-RL		Long term occupational exposure limits - recommended limit Short term occupational exposure limits - recommended limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concen-



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tration associated with x% growth rate response; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance 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

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/

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.

ZA / EN