

according to Regulation (EC) No. 1907/2006

# Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Mirtazapine Disintegrating Formulation

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Pharmaceutical

#### 1.3 Details of the supplier of the safety data sheet

Company	:	Organon & Co. Shotton Lane NE23 3JU Cramlington NU - Great Britain
Telephone	:	44 1 670 59 30 00
E-mail address of person responsible for the SDS	:	EHSSTEWARD@organon.com

### **1.4 Emergency telephone number**

215-631-6999

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	<ul> <li>H302 Harmful if swallowed.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> </ul>

according to Regulation (EC) No. 1907/2006



### Mirtazapine Disintegrating Formulation

Version 2.5	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015
		H412 Harm	ful to aquatic life with long lasting effects.
Precautionary statements		P260 Do no P270 Do no P273 Avoio	n special instructions before use. of breathe dust. of eat, drink or smoke when using this product. release to the environment. protective gloves/ protective clothing/ eye protec- tection.
		<b>Response:</b> P308 + P313 attention.	IF exposed or concerned: Get medical advice/

### Hazardous components which must be listed on the label:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine

### 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 explosive dust-air mixture during processing, handling or other means.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(+/-)-1,2,3,4,10,14b-Hexahydro-2- methylpyrazino[2,1-a]pyrido[2,3- c][2]benzazepine	85650-52-8 288-060-6	Acute Tox. 4; H302 Repr. 2; H361fd STOT RE 2; H373 (Nervous system) Aquatic Chronic 2; H411	>= 20 - < 25
Citric acid	77-92-9 201-069-1	Eye Irrit. 2; H319	>= 1 - < 10

For explanation of abbreviations see section 16.

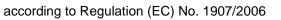
### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical





# **Mirtazapine Disintegrating Formulation**

Version 2.5	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015		
		advice.			
Protection of first-aiders		and use the	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
If inhaled			If inhaled, remove to fresh air. Get medical attention.		
In case of skin contact		of water. Remove cor Get medical Wash clothir	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		Get medical Rinse mouth	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.		
4.2 Most i	mportant symptoms	and effects, both	acute and delayed		
Risks		unborn child	f damaging fertility. Suspected of damaging the		
		the skin.	dust can cause mechanical irritation or drying of with the eyes can lead to mechanical irritation.		
4.3 Indica	tion of any immediat	e medical attentio	n and special treatment needed		
Treat	-		pmatically 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	:	None known.



according to Regulation (EC) No. 1907/2006

# Mirtazapine Disintegrating Formulation

Vers 2.5	sion	Revision Date: 09.04.2021		OS Number: 118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015			
5.2	5.2 Special hazards arising from the substance or mixture							
	Specific fighting	c hazards during fire-	:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.			
	Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (I Metal oxides	NOx)			
5.3	Advice	for firefighters						
	Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. ective 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	:	Use personal protective equipment. 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	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal.</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>
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according to Regulation (EC) No. 1907/2006



# Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	: :	Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.
7.2 Conditions for safe storage,	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents
7.3 Specific end use(s)		

Specific use(s) : No data available

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **Occupational Exposure Limits**

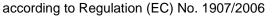
Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
(+/-)- 1,2,3,4,10,14b- Hexahydro-2-	85650-52-8	TWA	25 μg/m3	Internal

according to Regulation (EC) No. 1907/2006



# **Mirtazapine Disintegrating Formulation**

methylpyra-				
zino[2,1-				
a]pyrido[2,3-				
c][2]benzazepine				
		Wipe limit	250 µg/100 cm²	Internal
Cellulose	9004-34-6	TWA (inhalable	10 mg/m3	GB EH40
	-	dust)		<u> </u>
			ses of these limits, resp	
			airborne dust which wil	
			nce with the methods d	
			ampling and gravimetric ls., The COSHH definition	
			of any kind when prese	
			ng.m-3 8-hour TWA of ir	
			dust. This means that a	
			sed to dust above these	
			s and exposure to these	
			trial dusts contain partic	
			n and fate of any particu	
			ystem, and the body res	
			the particle. HSE disting	
			termed 'inhalable' and '	
			on of airborne material	
			therefore available for approximates to the frac	
			lung. Fuller definitions a	
			Where dusts contain co	
			elevant limits should be	
		TWA (Respirable	4 mg/m3	GB EH40
		dust)		
	Further inform	nation: For the purpo	ses of these limits, resp	irable dust and i
			airborne dust which wil	
			ince with the methods d	
			ampling and gravimetric	• •
	'		Is., The COSHH definition	
			of any kind when prese	
			ng.m-3 8-hour TWA of ir	
			dust. This means that a sed to dust above these	
			s and exposure to these	
			trial dusts contain partic	
			n and fate of any particu	
			ystem, and the body res	
			the particle. HSE disting	
	fractions for li	mit-setting purposes	termed 'inhalable' and '	respirable'., Inha
			on of airborne material	
			therefore available for	
			approximates to the frac	
			lung. Fuller definitions a	
			Where dusts contain co	
	their own ass	ioned VVEL all the re	elevant limits should be	complied with
		STEL (inhalable	20 mg/m3	GB EH40





# **Mirtazapine Disintegrating Formulation**

Version	Revision Date: 09.04.2021	SDS Number:	Date of last issue: 01.10.2020
2.5		51118-00017	Date of first issue: 23.01.2015
	samp MDH ble, ti haza in air mg.m ject to have the a of siz entry depe fraction ble di and r respin to the mate	bling is undertaken in a S14/4 General method horacic and inhalable rdous to health include equal to or greater tha -3 8-hour TWA of res o COSHH if people are been assigned specifi ppropriate limits., Mos es. The behaviour, de into the human respir nd on the nature and s ons for limit-setting pu ust approximates to th nouth during breathing ratory tract. Respirable a gas exchange region rial are given in MDHS	tions of airborne dust which will be collected when accordance with the methods described in ds for sampling and gravimetric analysis or respira- aerosols., The COSHH definition of a substance es dust of any kind when present at a concentration an 10 mg.m-3 8-hour TWA of inhalable dust or 4 pirable dust. This means that any dust will be sub- e exposed to dust above these levels. Some dusts ic WELs and exposure to these must comply with at industrial dusts contain particles of a wide range position and fate of any particular particle after atory system, and the body response that it elicits, size of the particle. HSE distinguishes two size rposes termed 'inhalable' and 'respirable'., Inhala- ie fraction of airborne material that enters the nose g and is therefore available for deposition in the e dust approximates to the fraction that penetrates of the lung. Fuller definitions and explanatory S14/4., Where dusts contain components that have II the relevant limits should be complied with.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:				
Substance name	Environmental Compartment	Value		

Substance name	Environmental Compartment	Value
Citric acid	Fresh water	0.44 mg/l
	Marine water	0.044 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	34.6 mg/kg dry weight (d.w.)
	Marine sediment	3.46 mg/kg dry weight (d.w.)
	Soil	33.1 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

### Personal protective equipment

Eye protection	:	Wear the following personal protective equipment: Safety goggles Equipment should conform to BS EN 166	
Hand protection			
Material	:	Chemical-resistant gloves	
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not	



## **Mirtazapine Disintegrating Formulation**

Version 2.5	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015			
Skin	and body protection	applications, chemicals of glove manufa end of workd	or the product. Change gloves often! For special we recommend clarifying the resistance to the aforementioned protective gloves with the acturer. Wash hands before breaks and at the ay. priate protective clothing based on chemical			
Okin and body protection		resistance data and an assessment of the local exposure potential.				
Poo	airatany protoction	clothing (glov	must be avoided by using impervious protective res, aprons, boots, etc).			
Res	piratory protection	sure assessn ommended g	ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. nould conform to BS EN 143			
Filte	r type	: Particulates t	ype (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	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
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
Relative vapour density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available

according to Regulation (EC) No. 1907/2006



# **Mirtazapine Disintegrating Formulation**

Vers 2.5	sion	Revision Date: 09.04.2021		S Number: 118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015
	octano	on coefficient: n- l/water gnition temperature	:	No data available No data available	
	Decom	position temperature	:	No data available	2
		ity cosity, dynamic cosity, kinematic	:	No data available No data available	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other in	nformation			
	Molecu	ular weight	:	No data available	9
	Particle	e size	:	No data available	9

### **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 explosive dust-air mixture during processing, har dling or other means. Can react with strong oxidizing agents.			
10.4 Conditions to avoid				
Conditions to avoid	Heat, flames and s Avoid dust formation	1		
10.5 Incompatible materials				
Materials to avoid	Oxidizing agents			
<b>10.6 Hazardous decomposition products</b> No hazardous decomposition products are known.				

### **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

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

according to Regulation (EC) No. 1907/2006



# **Mirtazapine Disintegrating Formulation**

sion	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015			
	e toxicity ful if swallowed.					
Produ Acute	oral toxicity		ity estimate: 1,588 mg/kg alculation method			
<u>Comp</u>	oonents:					
<b>(+/-)-</b> 1	l,2,3,4,10,14b-Hexa	hydro-2-methylpyr	azino[2,1-a]pyrido[2,3-c][2]benzazepine:			
Acute	oral toxicity	: LD50 (Rat)	: 320 - 490 mg/kg			
Citric						
Acute	oral toxicity	: LD50 (Mou	se): 5,400 mg/kg			
Acute	dermal toxicity	Method: O	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity</li> </ul>			
-	corrosion/irritation assified based on av	vailable information.				
Comp	oonents:					
Citric	acid:					
Speci		: Rabbit				
Metho Resul		: OECD Tes : No skin irri	t Guideline 404 tation			
Serio	us eye damage/eye	irritation				
Not cl	assified based on av	vailable information.				
<u>Comp</u>	oonents:					
Citric	acid:					
Speci		: Rabbit				
Metho Resul			t Guideline 405 eves, reversing within 21 days			
RESU	ι		eyes, reversing within 21 days			
Resp	iratory or skin sens	itisation				
Skin	sensitisation					
Not cl	assified based on av	ailable information.				
-	iratory sensitisatio					
	assified based on av	ailable information.				
	cell mutagenicity					
Not cl	assified based on av	ailable information				

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



# Mirtazapine Disintegrating Formulation

Version 2.5	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015	
Con	nponents:			
(+/-)	-1,2,3,4,10,14b-Hexal	ydro-2-methylpyraz	ino[2,1-a]pyrido[2,3-c][2]benzazepine:	
Ger	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive	
			vitro mammalian cell gene mutation test Chinese hamster lung cells ive	
			scheduled DNA synthesis assay mammalian cells ive	
			ster chromatid exchange assay mammalian cells ive	
Ger	notoxicity in vivo	: Test Type: Mi Species: Rat Cell type: Bor Application R Result: negat	oute: Oral	
Citr	ic acid:			
Ger	notoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive	
		Test Type: in Result: positiv	vitro micronucleus test /e	
		Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive	
Ger	notoxicity in vivo	cytogenetic te Species: Rat	utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) oute: Ingestion ive	

### Carcinogenicity

Not classified based on available information.

### Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:
--

Species	:	Mouse
Application Route	:	Oral
Exposure time	:	18 month(s)
LOAEL	:	200 mg/kg body weight
Result	:	equivocal
Target Organs	:	Liver
		•

according to Regulation (EC) No. 1907/2006



# **Mirtazapine Disintegrating Formulation**

Version 2.5	Revision Date: 09.04.2021		Number: 18-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015
Expo LOA Res	lication Route osure time EL		Rat Dral 2 Years 20 mg/kg body we equivocal Liver, Thyroid	eight
-	roductive toxicity pected of damaging fertil	ity. Su	spected of dama	ging the unborn child.
<u>Con</u>	nponents:			
	<b>-1,2,3,4,10,14b-Hexahy</b> cts on fertility	: T S F S t F F	Test Type: Fertilit Species: Rat Application Route Fertility: LOAEL: Symptoms: Effect ions Result: Animal test	2,1-a]pyrido[2,3-c][2]benzazepine: y/early embryonic development : Oral 15 mg/kg body weight on estrous cycle, Increase of early resorp- sting did not show any effects on fertility., ets and adverse effects on the offspring were
Effer	cts on foetal develop- t	S J F S	Result: Embryoto pring were detec Fest Type: Develo	: Oral oxicity: LOAEL: 100 mg/kg body weight xic effects and adverse effects on the off- ted., No teratogenic effects
		/ [		: Oral oxicity: NOAEL: 40 mg/kg body weight se effects, No teratogenic effects
	roductive toxicity - As- sment	f a	ertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-
	i <b>c acid:</b> cts on foetal develop- t	S /	Fest Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

according to Regulation (EC) No. 1907/2006



# Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

### Components:

### (+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:

Exposure routes Target Organs	Ingestion Nervous system
Assessment	May cause damage to organs through prolonged or repeated
	exposure.

#### **Repeated dose toxicity**

### Components:

### (+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:

Species LOAEL Application Route Exposure time Target Organs	::	Rat 120 mg/kg Oral 13 Weeks Nervous system
Species LOAEL Application Route Exposure time Target Organs Symptoms	:	Dog 15 mg/kg Oral 52 Weeks Nervous system Tremors
Species LOAEL Application Route Exposure time Target Organs Symptoms	· · ·	Dog 20 mg/kg Oral 13 Weeks Nervous system, Testis Tremors

### Citric acid:

Species	:	Rat
NOAEL	:	4,000 mg/kg
LOAEL	:	8,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	10 Days

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

### **Components:**

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:			
Ingestion	:	Symptoms: Drowsiness, constipation, dry mouth, asthenia, Dizziness, Disorientation	

according to Regulation (EC) No. 1907/2006



# Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:					
:	LC50 (Pimephales promelas (fathead minnow)): 6.92 mg/l Exposure time: 96 h Method: FDA 4.11				
:	EC50 (Daphnia magna (Water flea)): 19.5 mg/l Exposure time: 48 h				
:	EC50 (Pseudokirchneriella subcapitata (green algae)): 5.7 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
	NOEC (Pseudokirchneriella subcapitata (green algae)): 3.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
:	EC50 (Natural microorganism): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209				
	NOEC (Natural microorganism): < 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209				
:	NOEC: 3.6 mg/l Exposure time: 31 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210				
:	NOEC: 0.32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211				
:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h				
:	EC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h				
	: :				





# **Mirtazapine Disintegrating Formulation**

Version 2.5	Revision Date: 09.04.2021		DS Number: 118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015		
12.2 Persi	stence and degradab	ility				
Comp	oonents:					
Citric	acid:					
Biodegradability		:	Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B			
12.3 Bioad	ccumulative potential					
Com	oonents:					
<b>(+/-)</b> -1	l,2,3,4,10,14b-Hexahy	dro-:	2-methylpyrazin	o[2,1-a]pyrido[2,3-c][2]benzazepine:		
Bioac	cumulation	:	Bioconcentratio	hynchus mykiss (rainbow trout) n factor (BCF): 334 Test Guideline 305		
	ion coefficient: n- ol/water	:	log Pow: 2.78			
Citric	acid:					
	ion coefficient: n- ol/water	:	log Pow: -1.72			
12.4 Mobi	lity in soil					
<u>Comp</u>	oonents:					
<b>(+/-)</b> -1	l,2,3,4,10,14b-Hexahy	dro-:	2-methylpyrazin	o[2,1-a]pyrido[2,3-c][2]benzazepine:		
	oution among environ- al compartments	:	: log Koc: 4.48			
12.5 Resu	Its of PBT and vPvB a	asse	ssment			
Produ	uct:					
Asses	ssment	:	to be either per	/mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of		
12.6 Othe	r adverse effects					
<u>Produ</u>	uct:					
Endoo tial	crine disrupting poten-	:	ered to have er REACH Article	mixture does not contain components consid- idocrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 a or higher.		

according to Regulation (EC) No. 1907/2006



## Mirtazapine Disintegrating Formulation

Version 2.5	Revision Date: 09.04.2021	SDS Number: 51118-00017	Date of last issue: 01.10.2020 Date of first issue: 23.01.2015	
Product		According to the are not produce Waste codes states are states ar	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.	
Contaminated packaging		dling site for re	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**

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High	:	Not applicable
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation	:	Not applicable
(Annex XIV)		
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable
plete the ozone layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)		
Regulation (EC) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
Seveso III: Directive 2012/18/EU of the European Parlian	nen	t and of the Council on the control of
major-accident hazards involving dangerous substances.		
Not applicable		



# Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 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 H-Statements		
H302	:	Harmful if swallowed.
H319	:	Causes serious eye irritation.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H411	:	Toxic to aquatic life with long lasting effects.
Full text of other abbreviation	ns	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
STOT RE	:	Specific target organ toxicity - repeated exposure
	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

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 - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna-



### Mirtazapine Disintegrating Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2020
2.5	09.04.2021	51118-00017	Date of first issue: 23.01.2015

tional 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; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the mixtur	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Repr. 2	H361fd	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

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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