

Version 3.1	Revision Date: 2020/10/01	-	S Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
1. PRODU	ICT AND COMPANY ID	ENT	IFICATION	
Cherr	nical product name	:	Mirtazapine Disi	ntegrating Formulation
	lier's company name, a		-	umber
Comp	pany name of supplier	:	Organon & Co.	
Addre	ess	:		et, 33nd floor / Jersey, U.S.A_07302
Telep	hone	:	551-430-6000	
E-ma	il address	:	EHSSTEWARD	@organon.com
Emer	gency telephone number	r:	215-631-6999	
Reco	mmended use of the cl	hem	ical and restriction	ons on use
Reco	mmended use	:	Pharmaceutical	
2. HAZAR	DS IDENTIFICATION			
CHE	aloopification of chami			
	classification of chemi e toxicity (Oral)		Category 4	
	oductive toxicity	:	Category 2	
Speci	fic target organ toxicity - ted exposure (Oral)			vous system)
Short hazar	-term (acute) aquatic d	:	Category 3	
Long- hazar	term (chronic) aquatic d	:	Category 3	
GHS	label elements			
Haza	rd pictograms	:		!
Signa	ll word	:	Warning	\checkmark
Haza	rd statements	:	ing the unborn c H373 May cause prolonged or rep	ed of damaging fertility. Suspected of damag-

- Precautionary statements
- **Prevention:**

:



Version 3.1	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
		P202 Do not and understo P260 Do not P264 Wash P270 Do not P273 Avoid	breathe dust. skin thoroughly after handling. eat, drink or smoke when using this product. release to the environment. protective gloves/ protective clothing/ eye protec-
		CENTER/ do	2 + P330 IF SWALLOWED: Call a POISON octor if you feel unwell. Rinse mouth. 3 IF exposed or concerned: Get medical advice/
		Storage: P405 Store I	ocked up.
		Disposal: P501 Dispos disposal plar	e of contents/ container to an approved waste nt.
Othe	er hazards which do no	t result in classifi	cation
	ortant symptoms and out of the emergency as- ed	Contact with the skin.	with the eyes can lead to mechanical irritation. dust can cause mechanical irritation or drying of plosive dust-air mixture during processing, han- r means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
(+/-)-1,2,3,4,10,14b-Hexahydro-2- methylpyrazino[2,1-a]pyrido[2,3- c][2]benzazepine	85650-52-8	>= 20 - < 25	
Citric acid	77-92-9	>= 1 - < 10	2-1318
Cellulose	9004-34-6	>= 1 - < 10	
Magnesium stearate	557-04-0	>= 1 - < 10	2-611

4. 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.
If inhaled	:	If inhaled, remove to fresh air.

SAFETY DATA SHEET



Mirtazapine Disintegrating Formulation

Version 3.1	Revision Date: 2020/10/01	-	0S Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23			
In ca	In case of skin contact		Get medical attention. In case of contact, immediately flush skin with soap and plent of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In ca	ase of eye contact	:	If in eyes, rinse w				
Mos	vallowed t important symptoms effects, both acute and yed	:	 Set medical attention in initiation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Harmful if swallowed. Suspected of damaging fertility. Suspected of damaging th unborn child. May cause damage to organs through prolonged or repeat exposure if swallowed. Contact with dust can cause mechanical irritation or drying 				
	ection of first-aiders es to physician	:	the skin. Dust contact with First Aid responde and use the recor when the potentia	the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.			
5. FIREF	IGHTING MEASURES						
	able extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical				
Unsi med	uitable extinguishing ia	:	None known.				
Spec fight	cific hazards during fire- ing	:	concentrations, and 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.			
Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (I Metal oxides	NOx)			
Spec ods	cific extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so.	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			
	cial protective equipment refighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.



Version 3.1	Revision Date: 2020/10/01		DS Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
	quipment and emer- procedures			ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ods and materials for nment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

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 assessment 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.
Avoidance of contact Hygiene measures	 Oxidizing agents 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 contaminated clothing before re-use.

Storage



Version 3.1	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Cond	itions for safe storage	: Keep in prope Store locked	erly labelled containers.
Mater	rials to avoid		viance with the particular national regulations. with the following product types: ng agents
Packa	aging material	: Unsuitable m	aterial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
(+/-)-1,2,3,4,10,14b- Hexahydro-2- methylpyrazino[2,1- a]pyrido[2,3-c][2]benzazepine	85650-52-8	TWA	25 µg/m3	Internal
		Wipe limit	250 µg/100 cm ²	Internal
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

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 de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type
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 determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.



Vers 3.1	sion	Revision Date: 2020/10/01	-	S Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
	Eye pro	otection	:		g personal protective equipment:
	Skin and body protection		:	resistance data an potential.	e protective clothing based on chemical nd an assessment of the local exposure
					t be avoided by using impervious protective aprons, boots, etc).
9. P	HYSICA		ROF	PERTIES	
	Physica	al state	:	powder	
	Colour		:	No data available	9
	Odour		:	No data available	9
	Odour ⁻	Threshold	:	No data available	9
	Melting	point/freezing point	:	No data available	9
	•	point, initial boiling nd boiling range	:	No data available	9
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- eans.
	Flamma	ability (liquids)	:	No data available	9
	Upper e	explosion limit and upp explosion limit / Upper bility limit		•	
		explosion limit / Lower bility limit	:	No data available	9
	Flash p	point	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Evapor	ation rate	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Viscosi Visc	ty cosity, dynamic	:	No data available	e
	Visc	cosity, kinematic	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	e
	Partitio octanol	n coefficient: n- /water	:	No data available	9



ersion .1	Revision Date: 2020/10/01		S Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Vap	oour pressure	:	No data availabl	e
Do	acity and / or relative dana	i+.,		
	nsity and / or relative dens nsity	ity :	No data availabl	e
Rel	ative vapour density	:	No data availabl	e
Exp	plosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance of	or mixture is not classified as oxidizing.
Мо	ecular weight	:	No data availabl	e
	ticle characteristics ticle size	:	No data availabl	e
0. STA	BILITY AND REACTIVITY	Y		
Che	activity emical stability ssibility of hazardous reac- s	:	Stable under no May form explose dling or other me	ive dust-air mixture during processing, har
Cor	nditions to avoid	:	Heat, flames and Avoid dust forma	
Haz	ompatible materials zardous decomposition ducts	:	Oxidizing agents	
1. ТОХ	ICOLOGICAL INFORMA	τιοι	1	
	ormation on likely routes of osure	:	Inhalation Skin contact Ingestion Eye contact	
	ute toxicity mful if swallowed.			
Pro	oduct:			
Acu	ite oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1,588 mg/kg ion method
Co	mponents:			
(+/-)-1,2,3,4,10,14b-Hexahyd	lro-2	-methylpyrazino	[2,1-a]pyrido[2,3-c][2]benzazepine:
-	ite oral toxicity		LD50 (Rat): 320	
Cit	ric acid:			
	ite oral toxicity		LD50 (Mouse): 5	400 ma/ka

SAFETY DATA SHEET



sion	Revision Date: 2020/10/01	SDS Nun 50198-00		ast issue: 2020/03/23 irst issue: 2015/01/23
Acute	dermal toxicity	Metho	Rat): > 2,000 mg/kg I: OECD Test Guide ment: The substanc	line 402 e or mixture has no acute derma
Cellul	lose:			
Acute	oral toxicity	: LD50	Rat): > 5,000 mg/kg	
Acute	inhalation toxicity	Expos	Rat): > 5.8 mg/l ire time: 4 h mosphere: dust/mist	
Acute	dermal toxicity	: LD50	Rabbit): > 2,000 mg/	kg
Magn	esium stearate:			
Acute	oral toxicity	Metho Asses icity	Rat): > 2,000 mg/kg I: OECD Test Guide ment: The substanc ks: Based on data fro	e or mixture has no acute oral to
Acute dermal toxicity				
Acute	dermal toxicity		Rabbit): > 2,000 mg/ ks: Based on data fro	
Skin o	dermal toxicity corrosion/irritation assified based on ava	Rema	ks: Based on data fro	
Skin d Not cl	corrosion/irritation	Rema	ks: Based on data fro	
Skin d Not cl	corrosion/irritation assified based on ava ponents:	Rema	ks: Based on data fro	
Skin o Not cl <u>Comp</u> Citric Specie	corrosion/irritation assified based on ava <u>conents:</u> acid: es	Rema uilable informa : Rabb	ks: Based on data fro	
Skin o Not cl <u>Comp</u> Citric	corrosion/irritation assified based on ava <u>conents:</u> acid: es od	Rema uilable informa : Rabb : OECI	ks: Based on data fro	
Skin o Not cl Comp Citric Specia Metho Result	corrosion/irritation assified based on ava <u>conents:</u> acid: es od	Rema uilable informa : Rabb : OECI	ks: Based on data fro ion. Test Guideline 404	
Skin o Not cl Comp Citric Specie Result Magn Specie	corrosion/irritation assified based on ava <u>conents:</u> acid: es od t esium stearate: es	Rema ilable informa : Rabb : OECI : No sk : Rabb	ks: Based on data fro ion. Test Guideline 404	
Skin o Not cl Comp Citric Specie Result Magn Specie Result	corrosion/irritation assified based on ava <u>conents:</u> acid: es od t es es esium stearate: es t	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk	ks: Based on data fro ion. Test Guideline 404 irritation	om similar materials
Skin o Not cl Comp Citric Specie Result Magn Specie	corrosion/irritation assified based on ava <u>conents:</u> acid: es od t es es esium stearate: es t	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk	ks: Based on data fro ion. Test Guideline 404	om similar materials
Skin o Not cl Comp Citric Specia Metho Result Magn Specia Result Rema	corrosion/irritation assified based on ava <u>conents:</u> acid: es od t es es esium stearate: es t	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk : Based	ks: Based on data fro ion. Test Guideline 404 irritation irritation on data from similar	om similar materials
Skin o Not cl Comp Citric Specie Result Magn Specie Result Rema	corrosion/irritation assified based on ava <u>conents:</u> acid: es d t es es t es t rks us eye damage/eye	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk : Based	ks: Based on data fro ion. Test Guideline 404 irritation irritation on data from similar	om similar materials
Skin o Not cl Comp Citric Specie Result Magn Specie Result Rema	corrosion/irritation assified based on avaination conents: acid: es acid: es t t es t es t t rks us eye damage/eye assified based on avaination	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk : Based	ks: Based on data fro ion. Test Guideline 404 irritation irritation on data from similar	om similar materials
Skin o Not cl Comp Citric Specie Result Magn Specie Result Rema Serio Not cl Comp	corrosion/irritation assified based on avaination conents: acid: es acid: es t es t es t rks us eye damage/eye assified based on avaination conents: acid:	Rema illable informa : Rabb : OECI : No sk : Rabb : No sk : Based	ks: Based on data fro ion. Test Guideline 404 irritation irritation on data from similar	om similar materials
Skin o Not cl Comp Citric Specia Metho Result Magn Specia Result Rema Serio Not cl Comp Citric	corrosion/irritation assified based on avaination acid: es acid: es bd t esium stearate: es t rks us eye damage/eye i assified based on avaination conents: acid: es t	Rema ailable informa : Rabbi : OECI : No sk : Rabbi : No sk : Based i rritation ailable information : Rabbi : Irritati	ks: Based on data fro ion. Test Guideline 404 irritation irritation on data from similar	materials



ersion .1	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Mag r Speci Resu Rema	lt	: Rabbit : No eye irrit : Based on d	ation lata from similar materials
Resp	iratory or skin sensi	tisation	
Skin	sensitisation lassified based on ava		
-	iratory sensitisation lassified based on ava		
<u>Com</u>	ponents:		
Test ⁻	sure routes ies od It	: negative	
<u>Com</u> (+/-)-′	lassified based on ava ponents: 1,2,3,4,10,14b-Hexah toxicity in vitro	ydro-2-methylpyr : Test Type:	azino[2,1-a]pyrido[2,3-c][2]benzazepine Bacterial reverse mutation assay (AMES)
			In vitro mammalian cell gene mutation tes n: Chinese hamster lung cells
			unscheduled DNA synthesis assay n: mammalian cells ative
			sister chromatid exchange assay n: mammalian cells ative
Geno	toxicity in vivo	Species: Ra Cell type: B	one marrow Route: Oral
Citric	acid:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			/ 10



rsion	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23			
		Test Type: Result: pos	in vitro micronucleus test itive			
		Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative			
Genotoxicity in vivo		cytogenetic Species: Ra Application	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative			
Cellu	lose:					
	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative			
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative			
Genotoxicity in vivo		cytogenetic Species: M Application	: Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative			
Magn	esium stearate:					
-	toxicity in vitro	Result: neg	In vitro mammalian cell gene mutation test ative Based on data from similar materials			
		Method: OE Result: neg	Chromosome aberration test in vitro ECD Test Guideline 473 ative Based on data from similar materials			
		Result: neg	Bacterial reverse mutation assay (AMES) ative Based on data from similar materials			
	nogenicity assified based on av	vailable information.				
<u>Comp</u>	oonents:					
(+/-)-1	.2.3.4.10.14b-Hexa	hvdro-2-methvlpvr	azino[2,1-a]pyrido[2,3-c][2]benzazepine:			
Speci		: Mouse	P (11) (

y weight



sion	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Exposu LOAEL Result	ation Route ure time Organs	: Oral : 2 Years : 20 mg/kg boo : equivocal : Liver, Thyroid	
		: Rat : Ingestion : 72 weeks : negative	
-	ductive toxicity cted of damaging fer	tility. Suspected of da	amaging the unborn child.
Compo	onents:		
• • •	on fertility	: Test Type: Fe Species: Rat Application R Fertility: LOA Symptoms: E tions Result: Anima	Eino[2,1-a]pyrido[2,3-c][2]benzazepine: ertility/early embryonic development oute: Oral EL: 15 mg/kg body weight ffect on estrous cycle, Increase of early resorp al testing did not show any effects on fertility., effects and adverse effects on the offspring we
Effects ment	on foetal develop-	Result: Embr spring were of Test Type: D Species: Rab Application R Development	oute: Oral al Toxicity: LOAEL: 100 mg/kg body weight yotoxic effects and adverse effects on the off- letected., No teratogenic effects evelopment bit
Reproc sessme	luctive toxicity - As- ent	fertility, based	ce of adverse effects on sexual function and d on animal experiments., Some evidence of ts on development, based on animal experi-
Citric a Effects ment	acid: on foetal develop-	Species: Rat	ne-generation reproduction toxicity study oute: Ingestion



Version 3.1	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23	
Effects on fertility		Species: Rat	oute: Ingestion	
Effects on foetal develop- ment		Species: Rat Application R	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative	
Mag	nesium stearate:			
Effec	ts on fertility	reproduction/ Species: Rat Application R Method: OEC Result: negation	oute: Ingestion D Test Guideline 422	
Effec ment	ets on foetal develop-	Species: Rat Application R Result: negation	oute: Ingestion	

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

Components:

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

Exposure routes	: Ingestion
Target Organs	: 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	:	Dog 15 mg/kg Oral



Versio 3.1	n Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Та	xposure time arget Organs ymptoms	: 52 Weeks : Nervous system : Tremors	
LČ Aj Ex Ta	pecies DAEL pplication Route xposure time arget Organs ymptoms	: Dog : 20 mg/kg : Oral : 13 Weeks : Nervous system, : Tremors	Testis
C	itric acid:		
N LC Aj	pecies OAEL DAEL pplication Route xposure time	: Rat : 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days	
C	ellulose:		
N Aj	pecies OAEL pplication Route xposure time	: Rat : >= 9,000 mg/kg : Ingestion : 90 Days	
М	agnesium stearate:		
N Aj Ex	pecies OAEL pplication Route xposure time emarks	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data fro	om similar materials
A	spiration toxicity		

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 6.92 mg/l Exposure time: 96 h



ersion .1	Revision Date: 2020/10/01		S Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
			Method: FDA 4.	11
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): 19.5 mg/l 18 h
	Toxicity to algae/aquatic plants		mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 5.7 72 h Test Guideline 201
			mg/l Exposure time: 7	tirchneriella subcapitata (green algae)): 3.2 72 h Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	ales promelas (fathead minnow)): 3.6 mg/l 31 d Test Guideline 210
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 0.32 mg/l 21 d Test Guideline 211
Toxici	ty to microorganisms	:	Exposure time: 3 Test Type: Resp	
			Exposure time: 3 Test Type: Resp	
Citric	acid:			
	ty to fish	:	LC50 (Pimephal Exposure time: S	es promelas (fathead minnow)): > 100 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 2	magna (Water flea)): 1,535 mg/l 24 h
Cellul	ose:			
Toxici	ty to fish	:	Exposure time: 4	atipes (Japanese medaka)): > 100 mg/l ł8 h l on data from similar materials
Magn	esium stearate:			
-	ty to fish	:	Exposure time: 4 Method: DIN 384	
	ty to daphnia and other ic invertebrates	:	EL50 (Daphnia r Exposure time: 4	nagna (Water flea)): > 1 mg/l 17 h



ersion 1	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
		Method: Dire Remarks: Ba	ce: Water Accommodated Fraction ctive 67/548/EEC, Annex V, C.2. sed on data from similar materials the limit of solubility
Toxicit plants	y to algae/aquatic	mg/l Exposure tim Test substan Method: OEC Remarks: Ba	okirchneriella subcapitata (green algae)): > 1 e: 72 h ce: Water Accommodated Fraction CD Test Guideline 201 sed on data from similar materials the limit of solubility
		mg/l Exposure tim Test substan Method: OEC	udokirchneriella subcapitata (green algae)): > 1 e: 72 h ce: Water Accommodated Fraction CD Test Guideline 201 sed on data from similar materials
Toxicit	y to microorganisms	Exposure tim Test substan	domonas putida): > 100 mg/l e: 16 h ce: Water Accommodated Fraction sed on data from similar materials
Persis	stence and degradabi	lity	
<u>Comp</u>	onents:		
Citric Biodeç	acid: gradability	Biodegradation Exposure time	
Cellul	ose:		
Biodeg	gradability	: Result: Read	ily biodegradable.
-	e sium stearate: gradability	: Result: Not b Remarks: Ba	iodegradable sed on data from similar materials
Bioac	cumulative potential		
<u>Comp</u>	onents:		
(+/-)-1	,2,3,4,10,14b-Hexahy	dro-2-methylpyraz	zino[2,1-a]pyrido[2,3-c][2]benzazepine:
Bioaco	cumulation	Bioconcentra	corhynchus mykiss (rainbow trout) tion factor (BCF): 334 CD Test Guideline 305
Partitic octanc	on coefficient: n-	: log Pow: 2.78	3



Vers 3.1	sion	Revision Date: 2020/10/01		DS Number: 198-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
	Citric a Partitio octanol	n coefficient: n-	:	log Pow: -1.72	
	-	sium stearate: n coefficient: n- l/water	:	log Pow: > 4	
	Mobilit	ty in soil			
	Compo	onents:			
	Distribu	2,3,4,10,14b-Hexahyc ution among environ- compartments			2,1-a]pyrido[2,3-c][2]benzazepine:
		lous to the ozone lay plicable	er		
		adverse effects a available			
13.	DISPOS	SAL CONSIDERATION	1S		
	Dispos	sal methods			
		from residues ninated packaging	:		ordance with local regulations. should be taken to an approved waste han- cling or disposal.

If not otherwise specified: Dispose of as unused product.

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

Refer to section 15 for specific national regulation.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.



sion	Revision Date: 2020/10/01	SDS Number: 50198-00016	Date of last issue Date of first issue					
Cherr	nical Substance Cor	ntrol Law						
	Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.							
Indus	Industrial Safety and Health Law							
	Harmful Substances Prohibited from Manufacture Not applicable							
Harm	Harmful Substances Required Permission for Manufacture							
	Not applicable							
	Substances Prevented From Impairment of Health Not applicable							
on Ex	Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity							
Not a	Not applicable							
			s having Mutagenicit	y - Annex 1: Information				
		naving Mutagenicity						
	pplicable							
	tances Subject to be							
	e 57-2 (Enforcement	Order Table 9)	Nik. e.e.	O are construction $(0())$				
	nical name		Number 327	Concentration (%)				
wayi	nesium stearate		321	>=1-<10				
Subs	tances Subject to be	e Indicated Names						
	e 57 (Enforcement Or	der Article 18)						
	nical name			Number				
Mag	nesium stearate			327				
Ordin	ance on Prevention	of Hazards Due to S	pecified Chemical Su	ubstances				
Not a	pplicable							
Ordin	ance on Prevention	of Load Poisoning						
	pplicable	I of Lead I ofsolining						
		of Tetraalkyl Lead P	oisoning					
Not a	Not applicable							
Ordin	Ordinance on Prevention of Organic Solvent Poisoning							
	pplicable	-	-					
		- Industrial Safaty an	d Upalth I aw Attac	had table 1 (Dangarawa				
	Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)							
Not applicable								
		.						
		us Substances Conti	ol Law					
Not a	pplicable							
viron		of Release Amounts of Improvements to	-	al Substances in the En- pereof				
		A of						
нıgh	High Pressure Gas Safety Act							

High Pressure Gas Safety Act Not applicable



Vers 3.1	ion	Revision Date: 2020/10/01		Number: -00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23				
	Explosive Control Law Not applicable								
	Vessel Safety Law Not regulated as a dangerous good								
	Aviation Law Not regulated as a dangerous good								
	Marine Pollution and Sea Disaster Prevention etc Law								
	Bulk transportation			: Noxious liquid substance(Category Z)					
Pack transportation : Not classified as marine pollutant				marine pollutant					
	Narcotics and Psychotropics Control Act Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable								
	Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable								
	Waste Disposal and Public Cleansing Law Industrial waste								
	The co AICS	emponents of this pro		re reported in t t determined	he following inventories:				
	DSL		: no	t determined					
	IECSC		: no	t determined					

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		yyyy/mm/dd				
Full text of other abbreviations						
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)				
ACGIH / 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 con-



Version	Revision Date:	SDS Number:	Date of last issue: 2020/03/23
3.1	2020/10/01	50198-00016	Date of first issue: 2015/01/23

centration; 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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