

Vers 5.1	ion	Revision Date: 28.09.2024		DS Number: 57346-00012	Date of last issue: 06.04.2024 Date of first issue: 17.12.2019			
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1 Product identifier								
	Trade r	name	:	Acetyl Methionine Formulation				
1.2 F	Relevan	nt identified uses of t	he s	substance or mixt	ure and uses advised against			
		the Sub- ⁄Mixture	:	Veterinary produc	t			
	Recom on use	mended restrictions	:	Not applicable				
1.3 C	Details (	of the supplier of the	saf	ety data sheet				
	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	buth Africa			
	Telepho	one	:	+27119239300				
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com			
14F	1.4 Emergency telephone number							

### 1.4 Emergency telephone number

+1-908-423-6000

### **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)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### Additional Labelling

EUH210 Safety data sheet available on request.

#### 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.



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

#### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)			
nicotinamide	98-92-0 202-713-4	Eye Irrit. 2; H319	>= 1 - < 10			
Caffeine	58-08-2 200-362-1 613-086-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 1 - < 10			
Pyridoxine hydrochloride	58-56-0 200-386-2		>= 0,1 - < 1			
Substances with a workplace exposure limit :						
N-Acetyl-DL-methionine	1115-47-5 214-224-3		>= 10 - < 20			

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

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 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. Rinse mouth thoroughly with water.

# 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed Treatment

: Treat symptomatically and supportively.



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SECT	ION 5: Firefighting meas	sure	es				
5.1 Ex	tinguishing media						
S	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
Unsuitable extinguishing media			None known.				
5.2 Sp	ecial hazards arising from	the	substance or mi	xture			
	pecific hazards during fire- ghting	:	Exposure to com	pustion products may be a hazard to health.			
	azardous combustion prod- cts	:	Carbon oxides Nitrogen oxides (I Sulphur oxides Chlorine compour	,			
5.3 Ad	vice for firefighters						
	pecial protective equipment r firefighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.			
SI	pecific extinguishing meth- ds	:	cumstances and tuse water spray to	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			

### 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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	:	Soak up with inert absorbent material.
		For large spills, provide dyking or other appropriate contain-
		ment to keep material from spreading. If dyked material can



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		Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ore recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

#### 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	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		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. 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.
7.2 Conditions for safe storage,	inc	luding any incompatibilities
Requirements for storage	:	Keep in properly labelled containers. Store in accordance with

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases

## 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. Va	ue type (Form Control	parameters	Basis
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	N-Acet methio		1115-47-5	of exposure) TWA	2000 µg/m3 (OEB 1)	Internal
	Pyridox chlorid	xine hydro- e	58-56-0	TWA	OEB 3 (>= 10 < 100 μg/m3)	Internal

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

			. ,	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
nicotinamide	Workers	Inhalation	Long-term systemic effects	43,75 mg/m3
	Workers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	21,88 mg/m3
	Consumers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
Caffeine	Workers	Inhalation	Long-term systemic effects	44,37 mg/m3
	Workers	Skin contact	Long-term systemic effects	25,17 mg/kg bw/day
Choline chloride	Workers	Inhalation	Long-term systemic effects	338,5 mg/m3
	Workers	Skin contact	Long-term systemic effects	120 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	83,48 mg/m3
	Consumers	Skin contact	Long-term systemic effects	60 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
nicotinamide	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,1085 mg/kg
	Marine sediment	0,1109 mg/kg
	Soil	0,33 mg/kg
Caffeine	Fresh water	0,087 mg/l
	Freshwater - intermittent	0,87 mg/l
	Marine water	0,009 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,4 mg/kg dry weight (d.w.)
	Soil	0,029 mg/kg dry weight (d.w.)
Choline chloride	Fresh water	0,604 mg/l
	Marine water	0,0604 mg/l



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		Intermittent us Sewage treat		5 mg/l 112,9 mg/l		
		Fresh water sediment 0,5 mg/kg				
		Marine sediment 0,05 mg/kg				
		Soil 0,09 mg/kg				

#### 8.2 Exposure controls

#### **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.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye/face protection Hand 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
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type (A-P)

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid Colorless to pale yellow characteristic No data available
рН	:	3,30 - 4,30
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	99 °C



# **Acetyl Methionine Formulation**

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Flash	point	:	No data available	9
Evapo	ration rate	:	No data available	9
Flamm	ability (solid, gas)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	9
Vapou	r pressure	:	No data available	9
Relativ	ve vapour density	:	1,03 - 1,09	
Relativ	e density	:	No data available	9
Densit	Density		No data available	9
Wa Partitic octano	lity(ies) ter solubility on coefficient: n- I/water gnition temperature	:	soluble Not applicable No data available	à
	Decomposition temperature		No data available	
Viscos	Viscosity Viscosity, kinematic		No data available	9
Explos	ive properties	:	Not explosive	
Oxidizi	Oxidizing properties		The substance o	r mixture is not classified as oxidizing.
	nformation ability (liquids)	:	No data available	9
Molecu	ular weight	:	No data available	9
Particle	e size	:	Not applicable	

## **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

: Can react with strong oxidizing agents.



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	litions to avoid itions to avoid	:	None known.	
	<b>npatible materials</b> rials to avoid	:	Oxidizing agents	
	rdous decomposition azardous decompositior	-		
SECTION	11: Toxicological in	nfor	mation	
11.1 Infor	mation on toxicologic	al ef	fects	
	nation on likely routes o		Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on avail	able	information.	
Prod Acute	uct: e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2.000 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Com	ponents:			
nicot	inamide:			
Acute	e oral toxicity	:	LD50 (Rat): > 2.5 Method: OECD T Assessment: The icity	
Acute	inhalation toxicity	:	tion toxicity	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rabbit): > 3 Method: OECD T Assessment: The toxicity	



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C	affein	e:					
		ral toxicity	:	LD50 (Rat): 367,7	mg/kg		
A	cute ir	nhalation toxicity	:	LC50 (Rat): 4,94 r Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist		
A	cute d	ermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity			
P	yrido>	kine hydrochloride:					
	-	ral toxicity	:	LD50 (Rat): 4.000	mg/kg		
N	-Acet	yl-DL-methionine:					
A	cute o	ral toxicity	:		00 mg/kg on data from similar materials		
A	cute ir	nhalation toxicity	:	LC50 (Rat): > 5,29 Exposure time: 4 Test atmosphere: Method: OECD To Remarks: Based of	h dust/mist		
N <u>C</u>	ot clas	prrosion/irritation ssified based on availa nents:	able	information.			
-		amide:		Rabbit			
М	pecies lethod esult		:	OECD Test Guide No skin irritation	line 404		
C	affein	e:					
M	pecies lethod esult		: : :	Rabbit OECD Test Guide No skin irritation	line 404		
P	yridox	kine hydrochloride:					
	pecies esult	3	:	Rabbit No skin irritation			
N	-Acet	yl-DL-methionine:					
S	pecies	3	:	Rabbit			
	lethod		:	OECD Test Guide	eline 404		
	esult emark	S	:	No skin irritation Based on data fro	m similar materials		



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Serio	ous eye damage/eye	irritati	on	
	lassified based on ava			
<u>Com</u>	ponents:			
nicot	tinamide:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Gu	
Resu	int.	•	initation to eyes	s, reversing within 7 days
Caffe	eine:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Gu No eye irritatior	
Resu	int.	•	No eye imaioi	
-	loxine hydrochloride	:		
Spec Resu		:	Rabbit	
Resu	int.		No eye irritatior	I
Resp	piratory or skin sensi	tisatic	on	
Skin	sensitisation			
Not c	lassified based on ava	ailable	information.	
Resp	piratory sensitisation			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
nicot	tinamide:			
Test		:	Maximisation T	est
	sure routes	:	Skin contact	
Spec Meth		:	Guinea pig OECD Test Gu	ideline 406
Resu		:	negative	
Caffe	vino.			
Test			Local lymph no	de assay (LLNA)
	sure routes	:	Skin contact	
Spec		:	Mouse	
Meth Resu		:	OECD Test Gu	ideline 429
Resu	int.	•	negative	
Pyric	loxine hydrochloride	:		
Test		:	Maximisation T	est
Expo Spec	sure routes	:	Skin contact Guinea pig	
Meth		:	OECD Test Gu	ideline 406
Resu		:	negative	
N-Ac	etyl-DL-methionine:			
Test	-	:	Buehler Test	
		· .		



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Expo Spec Metho Resu Rema	od It	<ul> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> <li>negative</li> <li>Based on data from similar materials</li> </ul>					
	n cell mutagenicity lassified based on ava	ilable information.					
Com	ponents:						
nicot	inamide:						
Geno	otoxicity in vitro		Bacterial reverse mutation assay (AMES) CD Test Guideline 471 tive				
Geno	otoxicity in vivo	cytogenetic a Species: Mo Application F	use Route: Intraperitoneal injection CD Test Guideline 474				
Caffe	eine:						
Geno	otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive				
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive				
		Test Type: C Result: posit	Chromosome aberration test in vitro ive				
Geno	otoxicity in vivo	Species: Mo	Route: Ingestion				
Pyrid	loxine hydrochloride:						
•	otoxicity in vitro		Bacterial reverse mutation assay (AMES) tive				
N-Ac	etyl-DL-methionine:						
	otoxicity in vitro	Result: nega	Bacterial reverse mutation assay (AMES) tive ased on data from similar materials				
		Result: nega	n vitro mammalian cell gene mutation test tive ased on data from similar materials				
Geno	otoxicity in vivo	: Test Type: M	lammalian erythrocyte micronucleus test (in vivo				



ersion 1	Revision Date: 28.09.2024		DS Number: 57346-00012	Date of last issue: 06.04.2024 Date of first issue: 17.12.2019
			Result: negative	te: Intraperitoneal injection
	n <b>ogenicity</b> assified based on avai	lable	information.	
<u>Comp</u>	onents:			
Caffei	ne:			
	ation Route sure time	:	Rat Ingestion 104 weeks negative	
-	oductive toxicity assified based on avai	lable	information.	
<u>Comp</u>	onents:			
nicoti	namide:			
Effects ment	s on foetal develop-	:	Species: Rabbit Application Rout	Test Guideline 414
Caffei	ne:			
Effects	s on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effects ment	s on foetal develop-	:	Test Type: Emb Species: Rat Application Rout Result: negative	
Pvrido	oxine hydrochloride:			
•	s on foetal develop-	:	Test Type: Emb Species: Rat Application Rout Result: negative	

## STOT - repeated exposure

Not classified based on available information.



ersion .1			umber: 46-00012	Date of last issue: 06.04.2024 Date of first issue: 17.12.2019
Repe	ated dose toxicity			
Com	ponents:			
nicot	inamide:			
	EL cation Route sure time	: Ing : 28	t 5 mg/kg estion Days CD Test Gui	ideline 407
Caffe	ine:			
	ΞL	: 15′ : 27 : Ing	t, male 1 mg/kg 1,9 mg/kg estion Days	
N-Ac	etyl-DL-methionine:			
	EL cation Route sure time od	: Ing : 90 : OE	00 mg/kg estion Days CD Test Gu	ideline 408 from similar materials
-	ration toxicity lassified based on availa	able info	rmation.	
ECTION	12: Ecological info	rmation	i	
2.1 Toxi	city			
	ponents:			
	inamide:			
	ity to fish	Exp	oosure time:	reticulata (guppy)): > 1.000 mg/l 96 h Test Guideline 203
	ity to daphnia and other tic invertebrates	Exp	posure time:	magna (Water flea)): > 1.000 mg/l 24 h Test Guideline 202
Toxic plants	ity to algae/aquatic	mg Exp	/I posure time:	esmus subspicatus (green algae)): > 1.000 72 h Test Guideline 201
			FC (Desmo	desmus subspicatus (green algae)): 560 mg

NOEC (Desmodesmus subspicatus (green algae)): 560 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



/ersion 5.1	Revision Date: 28.09.2024	-	0S Number: 57346-00012	Date of last issue: 06.04.2024 Date of first issue: 17.12.2019
Toxic	Toxicity to microorganisms		: NOEC (Pseudomonas putida): 4.235 mg/l Exposure time: 18 h Method: OECD Test Guideline 209	
Caffe	ine:			
	ity to fish	:	LC50 (Leuciscus Exposure time: 96 Method: DIN 3847	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 182 mg/l Exposure time: 48 h Method: DIN 38412	
	Toxicity to algae/aquatic plants		ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/ Exposure time: 72 h Method: OECD Test Guideline 201	
			EC10 (Desmodes Exposure time: 72 Method: OECD Te	
Toxic	ity to microorganisms	:	EC10 (Pseudomo Exposure time: 17 Method: DIN 38 4	
Pvrid	oxine hydrochloride:			
•	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ን h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h
N-Ac	etyl-DL-methionine:			
Toxic	ity to fish	:	Exposure time: 96 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	



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			Remarks: Based	d on data from similar materials
12.2 Pers	sistence and degradabi	lity		
Com	ponents:			
	<b>tinamide:</b> legradability	:	Result: Readily I Biodegradation: Exposure time: 2 Method: OECD	95 %
	<b>eine:</b> legradability	:	Result: Readily I Remarks: Based	biodegradable. d on data from similar materials
<b>Pyridoxine hydrochloride:</b> Biodegradability		:	Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: OECD Test Guideline 301E	
	cetyl-DL-methionine: legradability	:	Result: Readily I Remarks: Based	biodegradable. d on data from similar materials
12.3 Bioa	accumulative potential			
Com	ponents:			
Parti	<b>tinamide:</b> ition coefficient: n- nol/water	:	log Pow: -0,38	
Parti	<b>eine:</b> ition coefficient: n- nol/water	:	log Pow: -0,091	
Parti	doxine hydrochloride: ition coefficient: n- nol/water	:	log Pow: 4,32	
Parti	cetyl-DL-methionine: ition coefficient: n- nol/water	:	log Pow: -0,313 Remarks: Calcu	lation
	<b>bility in soil</b> lata available			
	ults of PBT and vPvB a	sse	ssment	

## Product:



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Assessment		to be eith very pers	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.			
12.6 Othe	r adverse effects					
Produ	uct:					
Endo tial	crine disrupting poten-	ered to h REACH (EU) 201	tance/mixture does not contain components consid- ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 at 0.1% or higher.			

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

## **SECTION 14: Transport information**

## 14.1 UN number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good



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RID		: Not regulated as	a dangerous good
IMDG		: Not regulated as	a dangerous good
ΙΑΤΑ		: Not regulated as	a dangerous good
14.4 Packi	ng group		
ADN		: Not regulated as	a dangerous good
ADR		: Not regulated as	a dangerous good
RID		: Not regulated as	a dangerous good
IMDG		: Not regulated as	a dangerous good
ΙΑΤΑ	(Cargo)	: Not regulated as	a dangerous good
ΙΑΤΑ	(Passenger)	: Not regulated as	a dangerous good
-	onmental hazards gulated as a danger	ous good	
-	i <b>al precautions for</b> opplicable	Iser	
	<b>port in bulk accord</b> rks	ing to Annex II of Marp	ol and the IBC Code or product as supplied.

ture

The components of this	product are reported in	n the following inventories:
The components of this	product are reported in	i 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.
H332	:	Harmful if inhaled.

### Full text of other abbreviations



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5.1		5357346-00012	Date of first issue: 17.12.2019

Acute Tox.	: Acute toxicity
Eye Irrit.	: Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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 - 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; TECI -Thailand Existing Chemicals 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	:	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/

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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