

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name	:	Sulfadiazine / Trimethoprim Solid Formulation
1.2 Relevant identifie	d uses of the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture		Veterinary product
Recommended re	estrictions :	Not applicable
1.3 Details of the sup	plier of the saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of	person :	EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

responsible for the SDS

1-908-423-6000

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

### 2.1 Classification of the substance or mixture

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

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.



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#### 2.2 Label elements

Labelling (REGULATION (EC) Hazard pictograms :	No 1272/200	
Signal word :	Danger	$\mathbf{\vee}$
Hazard statements :	H315 H319 H334 H335 H361d H373 H410	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breath- ing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention P260 P273 P280	n: Do not breathe dust. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	<b>Response</b> P304 + P34 P342 + P3 <sup>4</sup> P391	40 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Hazardous components which must be listed on the label:

sulfadiazine Trimethoprim

## 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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



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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)
sulfadiazine	68-35-9 200-685-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity esti- mate	33.34
		Acute oral toxicity: 1,500 mg/kg	
Trimethoprim	738-70-5 212-006-2	Acute Tox. 4; H302 Repr. 2; H361d STOT RE 1; H372 (Bone marrow) Aquatic Chronic 2; H411	6.66

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	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.



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			, give artificial respiration. difficult, give oxygen. tention.	
In case of skin contact		for at least 15 r and shoes. Get medical at Wash clothing	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
In case of eye contact		for at least 15 r	emove contact lens, if worn.	
If swallowed		Get medical at	O NOT induce vomiting. tention. toroughly with water.	
4.2 Most i	mportant symptoms	and effects, both ac	ute and delayed	
Risks		ties if inhaled. May cause res Suspected of d		
		other respirato	osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac-sfunction syndrome).	
4.3 Indica	tion of any immediat	e medical attention a	and special treatment needed	
Treatr	-		atically and supportively.	

5.1	Extinguishing media		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.



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5.2 \$	Special	hazards arising from	the	substance or mi	xture
Specific hazards during fire- fighting		:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.		
	Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides	
5.3 A	Advice	for firefighters			
	Special for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. tective 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 cor	ntai	nment and cleaning up

6.3 Methods and material for co	3.3 Methods and material for containment and cleaning up				
Methods for cleaning up	<ul> <li>Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). 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. Clean up remaining materials from spill with suitable absorbent. 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> </ul>				



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		Sections 13 an	d 15 of this SDS provide information regardin

Sections 13 and 15 of this SDS provide information regarding certain local or 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	: 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	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	<ul> <li>Do not get on skin or clothing. Do not breathe dust. Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease,</li> </ul>
Hygiene measures	<ul> <li>should consult their physician regarding working with respiratory irritants or sensitisers.</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> <li>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.</li> </ul>
	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,	including any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents



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		Self-reactive s Organic perox Explosives Gases	substances and mixtures kides
•	<b>ic end use(s)</b> fic use(s)	: No data availa	able

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Occupational Exposure Limits

dusts non-specific

4 mg/m3 Value type (Form of exposure): OELV - 8 hrs (TWA) (Respirable dust) Basis: IE OEL

10 mg/m3 Value type (Form of exposure): OELV - 8 hrs (TWA) (inhalable dust) Basis: IE OEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
sulfadiazine	68-35-9	TWA	2 mg/m3 (OEB 1)	Internal
Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB 2)	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium carbonate	Workers	Inhalation	Long-term systemic effects	6.36 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	6.1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.06 mg/m3
	Consumers	Ingestion	Long-term systemic effects	6.1 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
sulfadiazine	Water	0.01 mg/l
Trimethoprim	Water	0.9 mg/l
Calcium carbonate	Sewage treatment plant	100 mg/l

#### 8.2 Exposure controls

## Engineering measures

Use feasible engineering controls to minimize exposure to compound.



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

#### Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 143
Filter type	:	Particulates type (P)

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

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

Physical state	:	powder
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	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
Flash point	:	No data available
Auto-ignition temperature	:	No data available



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	Decom	position temperature	:	No data available	e
	pН		:	No data available	9
	Viscos Viso	ity cosity, kinematic	:	Not applicable	
	Solubil Wa	ity(ies) ter solubility	:	No data available	9
	Partitic octano	n coefficient: n- I/water	:	Not applicable	
	Vapour pressure		:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	ý	:	No data available	9
	Relativ	e vapour density	:	Not applicable	
		e characteristics ticle size	:	No data available	9
9.2	9.2 Other information				
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapo	ration rate	:	Not applicable	

## **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b> Not classified as a reactivity hazar	rd.
<b>10.2 Chemical stability</b> Stable under normal conditions.	
10.3 Possibility of hazardous reaction	ons
Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials	
Materials to avoid	Oxidizing agents
	9/22



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#### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

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

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes	
exposure	

of : Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

## **Components:**

sulfadiazine:		
Acute oral toxicity	:	LD50 (Mouse): 1,500 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Acute toxicity (other routes of administration)	:	LD50 (Rat): 880 mg/kg Application Route: Intravenous
		LD50 (Mouse): 180 mg/kg Application Route: Intravenous
Trimethoprim:		
Acute oral toxicity	:	LD50 (Rat): 1,500 - 5,300 mg/kg
		LD50 (Mouse): 1,910 - 7,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): 400 - 500 mg/kg Application Route: Intraperitoneal
		LD50 (Dog): 90 mg/kg Application Route: Intravenous
		LD50 (Mouse): 132 mg/kg Application Route: Intravenous

#### Skin corrosion/irritation

Causes skin irritation.



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Com	oonents:				
sulfa	diazine:				
Resu		: Skin irritation			
Rema	arks	: Based on data	from similar materials		
	Serious eye damage/eye irritation Causes serious eye irritation.				
Com	Components:				
sulfa	diazine:				

#### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

## **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## Components:

### sulfadiazine:

Test Type :	Maximisation Test
Species :	Guinea pig
Result :	Not a skin sensitizer.
Remarks :	Based on data from similar materials

#### Trimethoprim:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

#### sulfadiazine:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
	Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative Remarks: Based on data from similar materials



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	ethoprim: toxicity in vitro		ype: Bacterial reverse mutation assay (AMES)
		Test Ty	ype: Chromosomal aberration
			ype: In vitro mammalian cell gene mutation test
		thesis i	ype: DNA damage and repair, unscheduled DNA syn- in mammalian cells (in vitro) negative
Geno	toxicity in vivo	Specie	ype: Micronucleus test s: Rat negative
		Specie	ype: Chromosomal aberration s: Humans : negative
<b>Repr</b> Susp	lassified based on ava oductive toxicity ected of damaging the ponents:		tion.
sulfa	diazine:		
	ts on foetal develop-	Specie Applica Genera Result:	ype: Development s: Mouse ation Route: Oral al Toxicity Maternal: NOAEL: 1,000 mg/kg body weight : Embryotoxic effects and adverse effects on the off- were detected only at high maternally toxic doses
Trime	ethoprim:		
	ts on fertility	Species Applica Fertility	ype: Fertility s: Rat ation Route: Oral /: NOAEL: 70 mg/kg body weight : No effects on fertility
Effect ment	ts on foetal develop-	Specie Applica Develo	ype: Development s: Rat ation Route: Oral pmental Toxicity: LOAEL: 70 mg/kg body weight : Effects on newborn



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		Remarks: Materr	nal toxicity observed.	
	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 70 mg/kg body weight Result: Embryotoxic effects. Remarks: Maternal toxicity observed.			
Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 15 mg/kg body we Result: Embryotoxic effects., Teratogenic effects				
			er	
Repro	oductive toxicity - As- nent	: Suspected of dat	maging the unborn child.	
	- single exposure cause respiratory irritatio	n.		
•	oonents:			
	<b>diazine:</b> ssment	: May cause respi	ratory irritation.	
	- repeated exposure cause damage to organs	s through prolonged or	r repeated exposure.	
	oonents:			
Trime	ethoprim:			
	et Organs ssment	<ul> <li>Bone marrow</li> <li>Causes damage exposure.</li> </ul>	to organs through prolonged or repeated	
Repe	ated dose toxicity			
Com	oonents:			
	ethoprim:			



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Expo	EL	: Rat : 100 mg/kg : 300 mg/kg : Oral : 6 Months : Bone marrow	<i>ı</i> , Liver, Pituitary gland, Thyroid
Species LOAEL Application Route Exposure time Target Organs		: Rat : 300 mg/kg : Oral : 3 Months : Bone marrow	1
Species NOAEL LOAEL Application Route Exposure time Target Organs		: Dog : 2.5 mg/kg : 45 mg/kg : Oral : 3 Months : Blood, Thyro	id

### Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Experience with human exposure

# Components:

sulfadiazine:

General Information	:	May cause eye, skin, and respiratory tract irritation.
Trimethoprim:		
Ingestion	:	Target Organs: Bone marrow Symptoms: Abdominal pain, Nausea, Vomiting, skin rash, Dizziness, Headache, mental depression, confusion

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **Components:**

sulfadiazine:



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Тс	Toxicity to fish		:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/ Exposure time: 96 h Method: OECD Test Guideline 203	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
	Toxicity to algae/aquatic plants		:	EC50 (Anabaena flos-aquae): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
				NOEC (Anabaena flos-aquae): 3.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
				EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				EC50 (Microcystis Exposure time: 7 Method: ISO 8692	
	l-Facto ity)	or (Acute aquatic tox-	:	1	
Тс	oxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
				NOEC : 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
ac		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 6.2 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	-Facto xicity)	or (Chronic aquatic	:	1	
		<b>to fish</b>	:	LC50 (Pimephales	s promelas (fathead minnow)): 100 mg/l



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				Exposure time: 96	ô h
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna Straus): 92 mg/l Exposure time: 48 h		
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 80.3 mg/l Exposure time: 72 h	
				NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h	
				EC50 (Anabaena flos-aquae): 253 mg/l Exposure time: 72 h	
				EC10 (Anabaena Exposure time: 72	flos-aquae): 26 mg/l 2 h
	Toxicity	to microorganisms	:	EC10 : 16.7 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	
				EC50 : > 1,000 m Exposure time: 3 Test Type: Respin Method: OECD T	hrs
	Toxicity to fish (Chronic tox- icity)		:	NOEC: 0.157 mg/l Exposure time: 21 d Species: Zebrafish	
		to daphnia and other invertebrates (Chron- ty)		NOEC: 6 mg/l Exposure time: 2 <sup>-</sup> Species: Daphnia	1 d magna (Water flea)
12.2	Persist	ence and degradabil	lity		
	Compo	onents:			
	sulfadi Biodegi	<b>azine:</b> radability	:	Result: Not readil Biodegradation: ( Exposure time: 28 Method: OECD T	0%
		n <b>oprim:</b> radability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	4 %



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Result: Not inherently biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302B

### 12.3 Bioaccumulative potential

#### Components:

:	log Pow: 0.12
	:

Partition coefficient: n-	: log Pow: 0.91
octanol/water	

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment	:	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 Endocrine disrupting properties**

Product:
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Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	ŀ	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.		
	\ C [	Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.		
Contaminated packaging		Empty containers should be taken to an approved waste han- dling site for recycling or disposal.		



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			If not otherwise s	pecified: Dispose of as unused product.			
SECTION	SECTION 14: Transport information						
14.1 UN number or ID number							
ADN		:	UN 3077				
ADR		:	UN 3077				
RID		:	UN 3077				
IMDO	3	:	UN 3077				
ΙΑΤΑ	L.	:	UN 3077				
14.2 UN p	proper shipping name						
ADN		:	ENVIRONMENT/ N.O.S. (sulfadiazine)	ALLY HAZARDOUS SUBSTANCE, SOLID,			
ADR		:	ENVIRONMENT/ N.O.S. (sulfadiazine)	ALLY HAZARDOUS SUBSTANCE, SOLID,			
RID		:	ENVIRONMENT/ N.O.S. (sulfadiazine)	ALLY HAZARDOUS SUBSTANCE, SOLID,			
IMDO	3	:	ENVIRONMENT/ N.O.S. (sulfadiazine)	ALLY HAZARDOUS SUBSTANCE, SOLID,			
ΙΑΤΑ	,	: Environmentally hazardous substance, solid, n.o.s. (sulfadiazine)		nazardous substance, solid, n.o.s.			
14.3 Tran	sport hazard class(es)						
			Class	Subsidiary risks			
ADN		:	9				
ADR		:	9				
RID		:	9				
IMDO	6	:	9				
ΙΑΤΑ		:	9				
14.4 Pack	king group						
Class Haza Labe <b>ADR</b>	ing group sification Code Ird Identification Number Is	:	III M7 90 9				
	ing group sification Code	:	III M7				



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	Labels	I Identification Number restriction code	:	90 9 (-)	
	Classif	g group ication Code I Identification Number	:	III M7 90 9	
	<b>IMDG</b> Packin Labels EmS C	g group ode	: : :	III 9 F-A, S-F	
	aircraft Packin	g instruction (cargo	:	956 Y956 III Miscellaneous	
	Packin ger airc Packin	Passenger) g instruction (passen- craft) g instruction (LQ) g group	:	956 Y956 III Miscellaneous	
14.	5 Enviro	nmental hazards			
	<b>ADN</b> Enviror	nmentally hazardous	:	yes	
	<b>ADR</b> Enviror	nmentally hazardous	:	yes	
	<b>RID</b> Enviror	nmentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
		Cargo) nmentally hazardous	:	yes	
14.0	6 Specia	al precautions for use	r		

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.



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## **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, mixtures and articles (Annex XVII)	:	Not applicable	
REACH - Candidate List of Substances of Very High	:	Not applicable	
Concern for Authorisation (Article 59).			
Regulation (EC) on substances that deplete the ozone	:	Not applicable	
layer			
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable	
tants (recast)			
Regulation (EU) No 649/2012 of the European Parlia-		Not applicable	
ment and the Council concerning the export and import	•		
of dangerous chemicals			
0		Nat analizable	
REACH - List of substances subject to authorisation		Not applicable	
(Annex XIV)			
Seveso III: Directive 2012/18/EU of the European Parliar	men	t and of the Counc	il on the control of
major-accident hazards involving dangerous substances			
, 5 5		Quantity 1	Quantity 2

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

### 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 th are highlighted in the body of this document lines.	•
Full text of H-Statements		

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.



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H334 H335		:	May cause allergy ties if inhaled. May cause respira	v or asthma symptoms or breathing difficul-
H361d		:		haging the unborn child.
H372		:		o organs through prolonged or repeated
H400		:	Very toxic to aqua	itic life.
H410		:		tic life with long lasting effects.
H411	H411		Toxic to aquatic life	fe with long lasting effects.
Full te	Full text of other abbreviation			
Acute Tox. Aquatic Acute Aquatic Chronic Eye Irrit. Repr. Resp. Sens. Skin Irrit. STOT RE STOT SE IE OEL			Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Eye irritation Reproductive toxicity Respiratory sensitisation Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Ireland. List of Chemical Agents and Carcinogens with Occu pational Exposure Limit Values - Code of Practice, Schedule and 2	
IE OEL	_ / OELV - 8 hrs (TWA)	:		osure limit value (8-hour reference period)

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;



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SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals 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:	
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	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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