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

1.1	Product identifier Trade name	:	Sulfapyridine Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 3 Skin sensitisation, Category 1 Reproductive toxicity, Category 1A Specific target organ toxicity - single exposure, Category 1 Long-term (chronic) aquatic hazard, Category 3 H301: Toxic if swallowed. H317: May cause an allergic skin reaction. H360F: May damage fertility. H370: Causes damage to organs.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms :			
Signa	l word	: Danger	•
Hazaı	d statements	: H301 H317 H360F H370 H412	Toxic if swallowed. May cause an allergic skin reaction. May damage fertility. Causes damage to organs. Harmful to aquatic life with long lasting effects.
Preca	utionary statements	: Preventi P201 P273 P280	on: Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Respons P301 + P P308 + P P333 + P	 310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label: Sulfapyridine Benzyl cinnamate

2.3 Other hazards

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

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form combustible dust concentrations in air during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sulfapyridine	144-83-2 205-642-7	Acute Tox. 2; H300 Skin Sens. 1; H317 Repr. 1A; H360F STOT SE 1; H370	>= 10 - < 20



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			Aquatic Chronic 2; H411	
Benz	yl benzoate	120-51-4 204-402-9 607-085-00	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - < 1
Benz	yl cinnamate	103-41-3 203-109-3	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid mea	asure	S
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. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

Risks	 Toxic if swallowed. May cause an allergic skin reaction. May damage fertility. Causes damage to organs.
	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically and supportively.
-----------	---	---

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Unsuitable extinguishing None known. : media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-: Exposure to combustion products may be a hazard to health. fighting Hazardous combustion prod- : Carbon oxides ucts 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Use personal protective equipment. Specific extinguishing meth-: Use extinguishing measures that are appropriate to local cirods cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do SO. Evacuate area.

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-	

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		tective equipme	ent recommendations (see section 8).
6.2 Enviro	nmental precautions		
	nmental precautions	Prevent further Retain and disp If spillage enters	o the environment. leakage or spillage if safe to do so. lose of contaminated wash water. s rivers or watercourses, inform the Environ- emergency telephone number 0800 807060).
6.3 Method	Is and material for co	ntainment and clear	ning up
6.3 Methods and material for conta Methods for cleaning up :		: Sweep up or va tainer for dispos Avoid dispersal with compresse Dust deposits si es, as these ma leased into the a Local or nationa posal of this ma employed in the mine which regu Sections 13 and	cuum up spillage and collect in suitable con- sal. of dust in the air (i.e., clearing dust surfaces

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	:	Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. 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.

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Hygiene measures		envi : If ex flusl plac worl Was The eng app indu	 Take care to prevent spills, waste and minimize release to the environment. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated 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 Condit	ions for safe storage,	includin	g any incom	patibilities	
	ements for storage and containers	tigh		labelled containers. Store locked up. Keep ore in accordance with the particular national	
Advice	e on common storage	Stro Self Org	ong oxidizing a f-reactive sub- anic peroxide losives	stances and mixtures	
-	c end use(s) ic use(s)	: No (data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
Sulfapyridine	144-83-2	TWA	0.25 mg/m3 (OEB 2)	Internal
	Further information: DSEN			
		Wipe limit	0.1 mg/100 cm2	Internal

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl benzoate	Workers	Inhalation	Long-term systemic effects	14.1 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	70.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.48 mg/m3



1.42 mg/kg

bw/day

Long-term systemic

effects

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Consumers

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		Consumers	Inhalatior	١	Acute systemic ef- fects	12.4 mg/m3	
		Consumers	Skin cont	act	Long-term systemic effects	1.42 mg/kg bw/day	

Ingestion

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Petrolatum	Oral (Secondary Poisoning)	9.33 mg/kg food
Benzyl benzoate	Fresh water	0.003 mg/l
	Marine water	0.322 µg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	2.043 mg/kg dry weight (d.w.)
	Marine sediment	0.204 mg/kg dry weight (d.w.)
	Soil	0.406 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

Eye/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.
Hand protection 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 BS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	solid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
pН	:	No data available

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	Melting	point/freezing point	:	No data available	9
		oiling point and boiling	:	No data available	e
	range Flash p	point	:	Not applicable	
	Evapor	ration rate	:	Not applicable	
	Flamm	ability (solid, gas)	:		stible dust concentrations in air during pro- g or other means.
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	ý	:	No data available	e
		ter solubility n coefficient: n-	:	No data available Not applicable	e
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	nformation			
	Flamm	ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	e
	Particle	e size	:	No data available	9

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SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: May form combustible dust concentrations in air during pro- cessing, handling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	· Host flamos and sparks

Conditions to avoid	: Heat, flames and sparks.
	Avoid dust formation.

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
--------------------	--------------------

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects						
Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact				
Acute toxicity						
Toxic if swallowed.						
Product:						
Acute oral toxicity	:	Acute toxicity estimate: 158 mg/kg Method: Calculation method				
Components:						
Sulfapyridine:						
Acute oral toxicity	:	LD50 (Rat): 15.8 mg/kg				
Benzyl benzoate:						
Acute oral toxicity	:	Acute toxicity estimate: 500 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.				
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg				

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	yl cinnamate:			
Acute	e oral toxicity		50 (Rat): 2,6 marks: Base	10 mg/kg d on data from similar materials
Acute	e dermal toxicity			> 5,000 mg/kg d on data from similar materials
	corrosion/irritation lassified based on ava	ilable info	rmation.	
Com	ponents:			
Benz	yl benzoate:			
Speci	-	: Ra	bbit	
Metho	bc	: OE	ECD Test Gu	
Resu	lt	: Nc	skin irritatio	n
Benz	yl cinnamate:			
Speci			lbbit	
Resu Rema			skin irritatio	n from similar materials
	us eye damage/eye	-		
	lassified based on ava		rmation.	
Com	ponents:			
Benz	yl benzoate:			
Speci		: Ra	lbbit	
Resu	lt	: Nc	eye irritation	1
Benz	yl cinnamate:			
Speci	ies	: Ra	lbbit	
Resu		· No	eye irritation	
				from similar motorials
Rema			sed on data	
Rema		: Ba	sed on data	nom similar materials
Rema Resp	arks	: Ba	sed on data	nom similar materials
Rema Resp Skin	arks iratory or skin sensi	: Ba tisation	sed on data	
Rema Resp Skin May o Resp	arks iratory or skin sensi sensitisation cause an allergic skin iratory sensitisation	: Ba tisation reaction.		
Rema Resp Skin May o Resp	arks iratory or skin sensi sensitisation cause an allergic skin	: Ba tisation reaction.		

Sulfapyridine:

Assessment

: May cause sensitisation by skin contact.

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Benz	yl benzoate:		
Test	Type sure routes es od	 Local lymph Skin contact Mouse OECD Test 0 negative 	node assay (LLNA) Guideline 429
Benz	yl cinnamate:		
Test Expos Speci Metho Rema	sure routes es od	 Maximisation Skin contact Guinea pig OECD Test (Based on date 	
Asses	ssment	: Probability or rate in huma	evidence of low to moderate skin sensitisation
	a cell mutagenicity lassified based on availa	able information.	
<u>Com</u>	oonents:		
Sulfa	pyridine:		
Geno	toxicity in vitro	: Test Type: In malian cells Result: positi	vitro sister chromatid exchange assay in mam- ve
			hromosome aberration test in vitro Chinese hamster cells ive
Geno	toxicity in vivo	: Test Type: M cytogenetic a Species: Mou Cell type: Bo Result: negat	ise marrow
Germ sessn	cell mutagenicity- As- nent	: Weight of evi cell mutagen	dence does not support classification as a germ
Benz	yl benzoate:		
Geno	toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test ive
		Test Type: C Result: nega	hromosome aberration test in vitro ive
Geno	toxicity in vivo	: Test Type: U	nscheduled DNA synthesis (UDS) test with

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	mammalian liver cells in vivo Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Benzyl cinnamate:	
Genotoxicity in vitro	 Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
	Test Type: In vitro sister chromatid exchange assay in mai malian cells Result: negative Remarks: Based on data from similar materials
	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Carcinogenicity	Remarks: Based on data from similar materials
Carcinogenicity Not classified based o <u>Components:</u>	n available information.
Not classified based of	n available information.
Not classified based of <u>Components:</u> Sulfapyridine: Carcinogenicity - Asso	n available information.
Not classified based of <u>Components:</u> Sulfapyridine: Carcinogenicity - Assoment Benzyl benzoate: Species Application Route Result	n available information. ess- : No data available : Rat : Ingestion : negative
Not classified based of <u>Components:</u> Sulfapyridine: Carcinogenicity - Assement Benzyl benzoate: Species Application Route	n available information. ess- : No data available : Rat : Ingestion
Not classified based of <u>Components:</u> Sulfapyridine: Carcinogenicity - Assoment Benzyl benzoate: Species Application Route Result	n available information. ess- : No data available : Rat : Ingestion : negative
Not classified based of <u>Components:</u> Sulfapyridine: Carcinogenicity - Assement Benzyl benzoate: Species Application Route Result Remarks	n available information. ess- : No data available : Rat : Ingestion : negative

May damage fertility.

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	<u>Comp</u>	onents:					
	Sulfap	oyridine:					
	Reproo sessm	ductive toxicity - As- ent	:		e of adverse effects on sexual function and an epidemiological studies.		
	Benzy	I benzoate:					
	Effects	s on fertility	:	Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion on data from similar materials		
	Effects ment	s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion		
	Benzy	I cinnamate:					
	Effects	s on fertility	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	oined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion Test Guideline 422 on data from similar materials		
	Effects ment	s on foetal develop-	:	Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion on data from similar materials		
		 single exposure s damage to organs. 					
		onents:					
	Sulfap	oyridine:					
	Expos Asses	ure routes sment	:		e significant health effects in animals at con- 0 mg/kg bw or less.		
		- repeated exposure assified based on avail	able	information.			
	Repea	ted dose toxicity					
	<u>Comp</u>	onents:					
	Benzy	l benzoate:					

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Expo Rema Spec NOA LOAE	EL cation Route sure time arks ies EL EL	: Rat : 781 mg/kg : 1,250 mg/kg	a from similar materials			
	cation Route sure time	: Skin contact : 4 Weeks				
Benz	yl cinnamate:					
Spec		: Rat, male				
NOA		: 275 mg/kg				
	cation Route sure time	: Ingestion : 90 Days				
Rema			Based on data from similar materials			
Not c	ration toxicity lassified based on avai					
Expe	rience with human ex	posure				
Com	ponents:					
Sulfa	pyridine:					
Skin Inges	contact tion	Symptoms: S Symptoms: H Symptoms: h	Bastrointestinal disturbance Bensitivity to light leadache			
SECTION	N 12: Ecological info	ormation				
12.1 Toxi	city					
Com	ponents:					
Sulfa	pyridine:					

:	EC10 (Raphidocelis subcapitata (freshwater green alga)): 1.0 mg/l End point: Growth rate Exposure time: 72 h
:	LC50 (Danio rerio (zebra fish)): 2.32 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
	:

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		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Raphidoco 0.475 mg/l Exposure time: 72 Method: OECD To	
				NOEC (Raphidoca 0.247 mg/l Exposure time: 72 Method: OECD Te	
	M-Fact icity)	or (Acute aquatic tox-	:	1	
	Toxicity	/ to microorganisms	:	EC50 (activated s Exposure time: 3 Method: ISO 8192	
	Toxicity icity)	/ to fish (Chronic tox-	:	EC10: 0.032 mg/l Exposure time: 35 Species: Danio re Method: OECD Te	rio (zebra fish)
		/ to daphnia and other invertebrates (Chron- ity)		NOEC: 0.258 mg/ Exposure time: 21 Species: Daphnia Method: OECD To	d magna (Water flea)
	Benzyl	cinnamate:			
	Toxicity		:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): > 0.643 mg/l 3 h
		/ to daphnia and other invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
	M-Fact icity)	or (Acute aquatic tox-	:	1	

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Toxic	Toxicity to microorganisms		EC50 : > 100 mg Exposure time: 3 Method: ISO 819 Remarks: Based	3 h	
12.2 Pers	istence and degradabi	ility			
<u>Com</u>	ponents:				
	yl benzoate: egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: Directive	94 %	
	yl cinnamate:				
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 7 Remarks: Based	100 %	
12.3 Bioa	ccumulative potential				
Com	ponents:				
Partit	yl benzoate: ion coefficient: n- ol/water	:	log Pow: 4 Method: OECD T	est Guideline 117	
Benz	yl cinnamate:				
Partit	ion coefficient: n- ol/water	:	log Pow: 4.18 Method: OECD T	est Guideline 117	
	i lity in soil ata available				
12.5 Resu	Ilts of PBT and vPvB a	isse	ssment		
<u>Prod</u> Asse	<u>uct:</u> ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
12.6 Othe	r adverse effects				
Prod	uct:				
	crine disrupting poten-	:		nixture does not contain components consid- ocrine disrupting properties for environment	

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		according to UK	REACH Article 57(f).
SECTION	13: Disposal cons	siderations	
13.1 Waste	e treatment methods	5	
Produc	ct	According to the are not product Waste codes sh discussion with	cordance with local regulations. European Waste Catalogue, Waste Codes specific, but application specific. would be assigned by the user, preferably in the waste disposal authorities. of waste into sewer.
Contar	minated packaging	: Empty containe dling site for rec	rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

	ADN	:	UN 2811
	ADR	:	UN 2811
	RID	:	UN 2811
	IMDG	:	UN 2811
	ΙΑΤΑ	:	UN 2811
14.	2 UN proper shipping name		
	ADN	:	TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine)
	ADR	:	TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine)
	RID	:	TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine)
	IMDG	:	TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine)
	ΙΑΤΑ	:	Toxic solid, organic, n.o.s. (Sulfapyridine)
14.	3 Transport hazard class(es)		
			Class Subsidiary risks
	ADN	:	6.1
	ADR	:	6.1
	RID	:	6.1
	IMDG	:	6.1
	ΙΑΤΑ	:	6.1

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14.4 Packing group

	ADN Packing group Classification Code Hazard Identification Number Labels	:	III T2 60 6.1
	ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III T2 60 6.1 (E)
	RID Packing group Classification Code Hazard Identification Number Labels	:	III T2 60 6.1
	IMDG Packing group Labels EmS Code	:	III 6.1 F-A, S-A
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	677 Y645 III Toxic
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	:	670 Y645 III Toxic
14.5	Environmental hazards		
	ADN Environmentally hazardous	:	no
	ADR Environmentally hazardous	:	no
	RID Environmentally hazardous	:	no
	IMDG		

Marine pollutant : no

14.6 Special precautions for user

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

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Anr	nex 17)	:	Not applicable	
UK REACH Candidate list of subst concern (SVHC) for Authorisation	ances of very high	:	Not applicable	
The Persistent Órganic Pollutants I Regulation (EU) 2019/1021 as ame ain)		:	Not applicable	
Regulation (EC) on substances tha layer	t deplete the ozone	:	Not applicable	
UK REACH List of substances sub (Annex XIV)	ject to authorisation	:	Not applicable	
GB Export and import of hazardous Informed Consent (PIC) Regulation		:	Not applicable	
Control of Major Accident Hazards Regulations 2015 (COMAH)				
			Quantity 1	Quantity 2
H2	ACUTE TOXIC		50 t	200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information

: Items where changes have been made to the previous version

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		are highlighte lines.	d in the body of this document by two vertical
Full t	ext of H-Statements		
H300 H302 H317 H360 H370 H400 H411	F	: May damage : Causes dama : Very toxic to a	allowed. a allergic skin reaction. fertility. age to organs if swallowed.
Full t	ext of other abbrevia	tions	
Aquatic Chronic:Long-term (chronRepr.:Reproductive toxiSkin Sens.:Skin sensitisation		: Short-term (a : Long-term (ch : Reproductive : Skin sensitisa	cute) aquatic hazard nronic) aquatic hazard toxicity
Wate Road ing of tion (rways; ADR - Agreer ; AIIC - Australian Inv Materials; bw - Body EC) No 1272/2008; C	nent concerning the entory of Industrial C weight; CLP - Class MR - Carcinogen, M	ernational Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by chemicals; ASTM - American Society for the Test- ification Labelling Packaging Regulation; Regula- utagen or Reproductive Toxicant; DIN - Standard L - Domestic Substances List (Canada); ECHA -

uladard serman 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

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Furth	er information					
comp	Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/					
Class	ification of the mixtu	re:	Classification procedure:			
Acute	Tox. 3	H301	Calculation method			
Skin S	Sens. 1	H317	Calculation method			
Repr.	1A	H360F	Calculation method			
STOT	SE 1	H370	Calculation method			
Aquat	tic Chronic 3	H412	Calculation method			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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