

Version	Revision Date:	SDS Number:	Date of last issue: 07.06.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Enilconazole Liquid Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	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)

Flammable liquids, Category 3 H226: Flammable liquid and vapour. Acute toxicity, Category 3 H301: Toxic if swallowed. Acute toxicity, Category 4 H332: Harmful if inhaled. Eye irritation, Category 2 H319: Causes serious eye irritation. Carcinogenicity, Category 2 H351: Suspected of causing cancer. Specific target organ toxicity - repeated H373: May cause damage to organs through proexposure, Category 2 longed or repeated exposure. Long-term (chronic) aquatic hazard, Cat-H410: Very toxic to aquatic life with long lasting egory 1 effects.



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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)

Hazard pictograms :		
Signal word :	Danger	
Hazard statements :	H226 H301 H319 H332 H351 H373 H410	Flammable liquid and vapour. Toxic if swallowed. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention	:
	P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	
	P301 + P31	0 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
	P391	Collect spillage.

Hazardous components which must be listed on the label:

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole Benzyl alcohol EUH208 Contains Benzyl alcohol. May produce an allergic reaction.

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.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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			EC-No. Index-No. Registration nu	ımber		(% w/w)
	m bis(2- hexyl)sulfosuccinate		577-11-7 209-406-4		Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 30 - < 50
1-[2-(a	ethylhexyl)sulfosuccinate 1-[2-(allyloxy)-2-(2,4- dichlorophenyl)ethyl]-1H-imidazole		35554-44-0 252-615-0 613-042-00-5		Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Dam. 1; H318 Carc. 2; H351 STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
Benzy	/I alcohol		100-51-6 202-859-9 603-057-00-5	:	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
Ethan	ol#		64-17-5 200-578-6 603-002-00-5	: ; ; ;	Flam. Liq. 2; H225 Eye Irrit. 2; H319 specific concentra- tion limit Eye Irrit. 2; H319 >= 50 % Eye Irrit. 2; H319 >= 50 %	>= 1 - < 10

For explanation of abbreviations see section 16. #: Voluntarily-disclosed substance

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. If not breathing, give artificial respiration.



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		If breathing is Get medical	s difficult, give oxygen. attention.		
In case of skin contact		of water. Remove con Get medical Wash clothin	ntact, immediately flush skin with soap and plenty taminated clothing and shoes. attention. g before reuse. clean shoes before reuse.		
In cas	e of eye contact	for at least 1	remove contact lens, if worn.		
lf swa	llowed	Call a physic Rinse mouth	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.		
4.2 Most i	mportant symptoms	and effects, both a	acute and delayed		
Symp	toms	: Gastrointesti	nal disturbance		
Risks		Harmful if inf Suspected of	bus eye irritation.		
		May produce	an allergic reaction.		
4.3 Indicat	tion of any immedia	e medical attentior	n and special treatment needed		
Treatr	ment	: Treat sympto	pmatically and supportively.		

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Do not use a solid water stream as it may scatter and spread
fighting		fire.



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				Vapours may form	ble over considerable distance. In explosive mixtures with air. Dustion products may be a hazard to health.
Hazardous combustion prod- ucts		:	Carbon oxides Sulphur oxides Metal oxides		
5.3 Advice for firefighters					
	Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
	Specific extinguishing meth- ods		:	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

6.2 Environmental precautions

Prevent spreading over a wide area (e.g. by containment or o barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).	Environmental precautions	Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ-
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Non-sparking tools should be used.
	Soak up with inert absorbent material.
	Suppress (knock down) gases/vapours/mists with a water spray jet.
	For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.



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		Sections 13 an	d 15 of this SDS provide information regarding

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 :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
	Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation.
		Use explosion-proof electrical, ventilating and lighting equip- ment.
	Advice on safe handling :	Do not breathe mist or vapours. Do not swallow. Do not get in eyes.
		Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Non-sparking tools should be used.
		Keep container tightly closed.
		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Take precautionary measures against static discharges.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
	Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.
		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 locked up. Keep
	areas and containers	tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Advice on common storage :	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids
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		Substances and flammable gase Explosives Gases	ls ostances and mixtures I mixtures, which in contact with water, emit
7.3 Specif	ic end use(s)		

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-[2-(allyloxy)-2- (2,4- dichloro- phenyl)ethyl]-1H- imidazole	35554-44-0	TWA	0.3 mg/m3 (OEB 2)	Internal
	Further information: Skin			
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium bis(2- ethylhex- yl)sulfosuccinate	Workers	Inhalation	Long-term systemic effects	1416.82 mg/m3
	Workers	Skin contact	Long-term systemic effects	200.89 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	419.25 mg/m3
	Consumers	Skin contact	Long-term systemic effects	120.54 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	13.39 mg/kg bw/day
Polyethylene glycol castor oil	Workers	Inhalation	Long-term systemic effects	16.4 mg/m3
	Workers	Skin contact	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m3
	Consumers	Skin contact	Long-term systemic	1.67 mg/kg

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II				effects	bw/day
		Consumers	Ingestion	Long-term systemic effects	1.67 mg/kg bw/day
Benz	yl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
		Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
		Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
Ethar	nol	Workers	Inhalation	Long-term systemic effects	380 mg/m3
		Workers	Skin contact	Long-term systemic effects	267 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	114 mg/m3

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Sodium bis(2-	Fresh water	0.18 mg/l
ethylhexyl)sulfosuccinate		
	Intermittent use/release	0.152 mg/l
	Marine water	0.018 mg/l
	Sewage treatment plant	12.2 mg/l
	Fresh water sediment	17.789 mg/kg dry
		weight (d.w.)
	Marine sediment	1.779 mg/kg dry
		weight (d.w.)
	Soil	1.04 mg/kg dry
		weight (d.w.)
Polyethylene glycol castor oil	Fresh water	0.000 mg/l
	Freshwater - intermittent	0.0661 mg/l
	Marine water	0.000 mg/l
	Marine water - intermittent	0.00661 mg/l
	Fresh water sediment	0.0129 mg/kg dry
		weight (d.w.)
	Marine sediment	0.00129 mg/kg
		dry weight (d.w.)
	Soil	0.00258 mg/kg

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Ш				dry weight (d.w.)
Benz	yl alcohol	Fresh water		1 mg/l
		Marine water		0.1 mg/l
		Intermittent use	e/release	2.3 mg/l

	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg
Ethanol	Fresh water	0.96 mg/l
	Freshwater - intermittent	2.75 mg/l
	Marine water	0.79 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3.6 mg/kg dry weight (d.w.)
	Marine sediment	2.9 mg/kg dry weight (d.w.)
	Soil	0.63 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	380 mg/kg food

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. Laboratory operations do not require special containment.

Use explosion-proof electrical, ventilating and lighting equipment.

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	
Remarks	:	Take note that the product is flammable, which may impact the selection of hand protection.	
Skin and body protection	:	Work uniform or laboratory coat.	
Respiratory protection	:	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



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	Appear Colour Odour Odour	ance Threshold	::	liquid light yellow musty No data available	3
	рН		:	9.5	
	Melting	point/freezing point	:	No data available	
		oiling point and boiling	:	No data available)
	range Flash p	oint	:	45 °C	
	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	1.094	
	Solubili Wat Partition octanol	er solubility n coefficient: n-	:	soluble No data available	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	Not applicable	
	Molecu	lar weight	:	No data available	
	Particle	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	:	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid		

Conditions to avoid	:	Heat, flames and sparks.
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10.5 Incompatible materials

Materials to avoid

: Oxidizing agents Acids

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 : Inhalation exposure Skin contact Ingestion Eye contact Acute toxicity Toxic if swallowed. Harmful if inhaled. Product: Acute oral toxicity : LD50 (Rat): 192 - 309 mg/kg Acute inhalation toxicity : LC50 (Rat): 3.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist : LD50 (Rabbit): > 900 mg/kg Acute dermal toxicity **Components:** Sodium bis(2-ethylhexyl)sulfosuccinate: Acute oral toxicity : LD50 (Rat): 3,080 mg/kg

Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
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II

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

	-pi	
Acute oral toxicity	:	LD50 (Rat): 227 mg/kg Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
		LD50 (Mouse): 390 - 620 mg/kg
		LD50 (Dog): > 640 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 1.84 - 2.88 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
Acute dermal toxicity	:	LD50 (Rat): 4,200 - 4,800 mg/kg
		LD50 (Rabbit): 4,200 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): 155 mg/kg Application Route: Intraperitoneal
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1,200 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Ethanol:		
Acute oral toxicity	:	LD50 (Rat): 10,470 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male): 116.9 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 15,800 mg/kg
Skin corrosion/irritation		
Not classified based on availa	ble	information.
Product:		
Species	:	Rabbit



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Comp	oonents:			
Sodiu	um bis(2-ethylhexyl)	sulfos	succinate:	
Speci		:	Rabbit	
Metho		:	OECD Test Gui	deline 404
Resul	lt	:	Skin irritation	
1-[2-(allyloxy)-2-(2,4-dich	loroph	nenyl)ethyl]-1H-i	midazole:
Speci		:	Rabbit	
Resul	lt	:	Mild skin irritatio	n
Benzy	yl alcohol:			
Speci	es	:	Rabbit	
Metho	bd	:	OECD Test Gui	deline 404
Resul	lt	:	No skin irritatior	1
Ethar	nol:			
Speci	es	:	Rabbit	
Metho		:	OECD Test Gui	deline 404
Resul	lt	:	No skin irritatior	1
	es		Rabbit Moderate eye ir	ritation
Comp	oonents:			
	um bis(2-ethylhexyl)	sulfos	succinate:	
Speci	es	:		
Metho		:	OECD Test Gui	
Resul	IT	:	Irreversible effe	cts on the eye
1-[2-(allyloxy)-2-(2,4-dich	loropł	nenyl)ethyl]-1H-i	midazole:
Speci	es	:	Rabbit	
Resul	lt	:	Irreversible effe	
Rema	arks	:		onised classification in EU regulation
II			1272/2008, Anr	nex VI
Speci	es	:	Rabbit	
Resul		:	Moderate eye ir	
Rema	arks	:	Based on harmo 1272/2008, Anr	onised classification in EU regulation nex VI
Benzy	yl alcohol:			
Speci	es	:	Rabbit	



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Metho Resul	od It		st Guideline 405 9 eyes, reversing within 21 days
Ethar Speci Metho Resul	es od		st Guideline 405 9 eyes, reversing within 21 days
Resp	iratory or skin sensit	isation	
	sensitisation assified based on ava	ilable informatior	
-	iratory sensitisation		
	assified based on ava	lable information	
<u>Prodı</u> Speci Resul	es	: Guinea pi : Not a skin) sensitizer.
Com	oonents:		
Sodiu	ım bis(2-ethylhexyl)؛	ulfosuccinate:	
Test Expos Speci Resul	sure routes es	: Human re : Skin conta : Humans : negative	peat insult patch test (HRIPT) lot
4 [2]	allularu) 2 (2 4 diabl	srophonyl)othyl	1H imidazala
Test	sure routes es	: Maximisa : Dermal : Guinea pi : equivocal	ion Test
Expos Speci Resul		: Dermal : Humans : Not a skin	sensitizer.
Benz	yl alcohol:		
Test	Гуре sure routes es	: Human re : Skin conta : Humans : positive	peat insult patch test (HRIPT) lot
Asses	ssment	: Probability rate in hu	or evidence of low to moderate skin sensitisation nans
Etha r ∎Test⊺		: Mouse ea	r swelling test (MEST)

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Exposu Specie Result	ire routes s	::	Skin contact Mouse negative	

Germ cell mutagenicity

Not classified based on available information.

Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: equivocal
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
		Test Type: gene mutation test Test system: Chinese hamster fibroblasts Result: negative
		Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative
		Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative
		Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse



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	Result: negat	ive		
yl alcohol:				
toxicity in vitro		acterial reverse mutation assay (AMES) ive		
toxicity in vivo	cytogenetic a Species: Mou Application R	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
nol:				
toxicity in vitro	Method: OEC	acterial reverse mutation assay (AMES) D Test Guideline 471 ive		
	Method: OEC	vitro mammalian cell gene mutation test D Test Guideline 476 ive		
		nromosome aberration test in vitro ive		
toxicity in vivo	cytogenetic a Species: Rat Application R	oute: Ingestion		
	28.09.2024 yl alcohol: toxicity in vitro toxicity in vivo hol: toxicity in vitro	28.09.2024 9372821-00010 Result: negat yl alcohol: toxicity in vitro : Test Type: Ba Result: negat toxicity in vivo : Test Type: Ma cytogenetic a Species: Mou Application R Result: negat nol: toxicity in vitro : Test Type: Ba Method: OEC Result: negat Test Type: In Method: OEC Result: negat Test Type: Ch Result: negat toxicity in vivo : Test Type: Ch Result: negat toxicity in vivo : Test Type: Ma cytogenetic a Species: Rat		

Carcinogenicity

Suspected of causing cancer.

Components:

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

	1 27 24
Species	: Rat
Application Route	: Oral
Exposure time	: 2 Years
NÓAEL	: 40 mg/kg body weight
Result	: negative
Species	: Mouse
Application Route	: Oral
Exposure time	: 2 Years
LOAEL	: 33 mg/kg body weight
Result	: positive
Target Organs	: Liver
Species	: Mouse
Species Application Route	: oral (feed)

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NÓAE LOAEL Result	- Organs	 23 Months 8 mg/kg body v 105 mg/kg bod positive Liver Based on harm 1272/2008, An 	y weight nonised classification in EU regulation
Carcin ment	ogenicity - Assess-	: Limited eviden	ce of carcinogenicity in animal studies
	l alcohol:		
	ation Route ure time d	: Mouse : Ingestion : 103 weeks : OECD Test Gu : negative	iideline 451
Not cla	ductive toxicity assified based on availa onents:	ble information.	
	m bis(2-ethylhexyl)su	lfosuccinate:	
Effects	s on fertility	: Test Type: Thr Species: Rat Application Ro Result: negativ	
Effects ment	s on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	
1-[2-(a	llyloxy)-2-(2,4-dichlor	ophenyl)ethyl]-1H-	imidazole:
Effects	s on fertility	Species: Rat Application Ro General Toxici Result: Matern adverse effects Remarks: Not	ti-generation study ute: Oral ty - Parent: NOAEL: 20 mg/kg body weight al toxicity observed., Embryotoxic effects and s on the offspring were detected. classified due to data which are conclusive icient for classification.
Effects ment	s on foetal develop-	Result: Reduce verse effects o ternally toxic de	ute: Oral Toxicity: LOAEL: 80 mg/kg body weight ed foetal weight, Embryotoxic effects and ad- n the offspring were detected only at high ma-

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II		es.		
		Result: Mate Postimplanta	obit Route: Oral tal Toxicity: LOAEL: 10 mg/kg body weight rnal toxicity observed., No teratogenic effects,	
Benz	yl alcohol:			
Effect	s on fertility	Species: Rat Application F Result: nega	Route: Ingestion	
Effect ment	s on foetal develop-	Species: Mo Application F	: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative	
Ethar	nol:			
Effect	s on fertility	Species: Mo	Route: Ingestion	
	- single exposure assified based on avai	lable information.		
	- repeated exposure			
	· · ·		d or repeated exposure.	
<u>Comp</u>	oonents:			
1-[2-(allyloxy)-2-(2,4-dichlo	prophenyl)ethyl]-1	H-imidazole:	
Targe	t Organs	: Liver		

Target Organs	:	Liver
Assessment	:	May cause damage to organs through prolonged or repeated
Target Organs Assessment		exposure.

Repeated dose toxicity

Product:

Rabbit
1 mg/kg
Dermal
21 d
No adverse effects

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Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:

Species NOAEL	: Rat	
NOAEL	: 750 mg	/kg
Application Route	: Ingestio	n
Exposure time	: 90 Days	5

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Rat 5 mg/kg 20 mg/kg Oral 3 - 24 Months Liver decrease in appetite
Species NOAEL LOAEL Application Route Exposure time Symptoms	: Dog : 2.5 mg/kg : 20 mg/kg : Oral : 12 Months : Salivation, Vomiting
Species NOAEL LOAEL Application Route Exposure time Target Organs	: Mouse : 12 mg/kg : 140 mg/kg : Oral : 3 Months : Liver
Benzyl alcohol: Species NOAEL Application Route Exposure time Method	: Rat : 1.072 mg/l : inhalation (dust/mist/fume) : 28 Days : OECD Test Guideline 412
Ethanol: Species NOAEL	: Rat : 1,730 mg/kg

:	Rat
:	1,730 mg/kg
:	3,200 mg/kg
:	Ingestion
:	90 Days
	:

Aspiration toxicity

Not classified based on available information.



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Experience with human exposure

Product:

Inhalation Skin contact Eye contact Ingestion	:	Remarks: May irritate skin. Remarks: May irritate eyes. Symptoms: Gastrointestinal disturbance, central nervous sys-
Ingestion	•	tem effects

Components:

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Skin contact Eye contact Ingestion	:	Symptoms: pruritis, skin rash, Skin irritation
Eye contact	:	Symptoms: Eye irritation
Ingestion	:	Symptoms: Nausea

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 49 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6.6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 82.5 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 22 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 164 mg/l Exposure time: 16 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC10: 9 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Toxicity to fish	Exposure ti	orhynchus mykiss (rainbow trout)): 1.48 mg/l me: 96 h CD Test Guideline 203
	Exposure ti	mis macrochirus (Bluegill sunfish)): 3.99 mg/l me: 96 h :CD Test Guideline 203

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	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC: < 0.007 m Exposure time: 21 Species: Daphnia Method: OECD Te	d magna (Water flea)
M-Fa toxic	actor (Chronic aquatic ity)	:	10	
Ecot	oxicology Assessment			
	e aquatic toxicity	:	Very toxic to aqua Remarks: Based o regulation SEA No	on the harmonised classification in Turkish
Bonz	zyl alcohol:			
	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 3 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD To	magna (Water flea)

Ethanol:

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Toxicit	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 14,200 mg/l S h
	y to daphnia and other c invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 5,012 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Chlorella Exposure time: 72	vulgaris (Fresh water algae)): 275 mg/l 2 h
			EC10 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 11.5 mg/l 2 h
Toxicit	y to microorganisms	:	EC50 (Protozoa): Exposure time: 4	
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time: 10	
	y to daphnia and other c invertebrates (Chron- sity)		Exposure time: 9	d magna (Water flea)

12.2 Persistence and degradability

Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:					
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 91.2 % Exposure time: 28 d			
1-[2-(allyloxy)-2-(2,4-dichloro	ph	enyl)ethyl]-1H-imidazole:			
Biodegradability	:	Result: not rapidly degradable Biodegradation: 50 % Exposure time: 166 d			
Benzyl alcohol:					
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d			
Ethanol:					
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d			

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12.3 Bioaccumulative potential

Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:

Partition coefficient: n-	:	log Pow: 1.998
octanol/water		Remarks: Calculation

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Partition coefficient: n- octanol/water	:	log Pow: 3.82
Benzyl alcohol: Partition coefficient: n- octanol/water	:	log Pow: 1.05
Ethanol: Partition coefficient: n- octanol/water	:	log Pow: -0.35

12.4 Mobility in soil

Components:

1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole:

Distribution among environ-	:	log Koc: 3.82
mental compartments		

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 Other adverse effects

Product:

Endocrine disrupting poten-	:	This substance/mixture does not contain components consid-
tial		ered to have endocrine disrupting properties for environment
		according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.



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Co	ntaminated packaging	:	dling site for recy Empty containers Do not pressurize pose such contain of ignition. They r	s should be taken to an approved waste han- cling or disposal. s retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources may explode and cause injury and/or death. pecified: Dispose of as unused product.	
SECTIO	ON 14: Transport infor	ma	tion		
14.1 UN	l number				
AD	N	:	UN 1992		
AD	R	:	UN 1992		
RI)	:	UN 1992		
IMI	DG	:	UN 1992		
ΙΑΙ	A	:	UN 1992		
14.2 UN	l proper shipping name				
AD	N	:		QUID, TOXIC, N.O.S. lyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-	
AD	R	:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol, 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H- imidazole)		
RIC)	:	 FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol, 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H- imidazole) 		
IMI	DG	:	 FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol, 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H- imidazole) 		
ΙΑΙ	FA	:	: Flammable liquid, toxic, n.o.s. (Ethanol, 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H- imidazole)		
14.3 Tra	ansport hazard class(es)				
			Class	Subsidiary risks	
AD	N	:	3	6.1	
AD	R	:	3	6.1	
RI)	:	3	6.1	
IMI	DG	:	3	6.1	
IAI	A	:	3	6.1	
14.4 Pa	cking group				
AD	N				

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		g group cation Code Identification Number	:	III FT1 36 3 (6.1)	
	Hazard Labels	g group cation Code Identification Number restriction code	:	III FT1 36 3 (6.1) (D/E)	
		g group cation Code Identification Number	:	III FT1 36 3 (6.1)	
	IMDG Packing Labels EmS C		:	III 3 (6.1) F-E, S-D	
	aircraft)	g instruction (cargo g instruction (LQ)	:	366 Y343 III Flammable Liquid	ls, Toxic
	Packing ger airc	g instruction (LQ)	:	355 Y343 III Flammable Liquid	łs, Toxic
14.5	5 Enviro	nmental hazards			
	ADN Enviror	mentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
14.6	Specia	I 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 Transport in bulk according to Annex II of Marpol and the IBC Code



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Rema	arks	: Not applicable f	or 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 (A	nnex 17)	:	Conditions of restr lowing entries sho Number on list 3	iction for the fol- uld be considered:
			Substance(s) or m here according to in the regulation, in use/purpose or the restriction. Please tions in correspond determine whether	their appearance rrespective of their e conditions of the refer to the condi- ding Regulation to
UK REACH Candidate list of sub concern (SVHC) for Authorisatior		:	Not applicable	
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as ar ain)	s Regulations (retained	:	Not applicable	
Regulation (EC) on substances the layer	hat deplete the ozone	:	Not applicable	
UK REACH List of substances su (Annex XIV)	ubject to authorisation	:	Not applicable	
GB Export and import of hazardo Informed Consent (PIC) Regulati		:	Not applicable	
Control of Major Accident Hazard		MA	(H)	
			Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5	5,000 t	50,000 t
E1	ENVIRONMENTAL		100 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:

HAZARDS

AICS	:	not determined
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DSL : not determined



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IECSC	;	: not determined				
	ical safety assessn Safety Assessment	hent has not been carried o	ut.			
ECTION	16: Other information	ation				
Other i	information		anges have been made to the previous versior in the body of this document by two vertical			
Full te	xt of H-Statements					
H225 H301 H302 H315 H317 H318 H319 H332 H351 H373 H400		 Toxic if swallow Harmful if swall Causes skin irri May cause an a Causes serious Causes serious Causes serious Harmful if inhale Suspected of ca May cause dam exposure. Very toxic to aq 	owed. tation. allergic skin reaction. eye damage. eye irritation. ed. ausing cancer. hage to organs through prolonged or repeated uatic life.			
H410			: Very toxic to aquatic life with long lasting effects.			
Acute Aquati	c Acute c Chronic am. it. Liq. rit. ens. RE	 Acute toxicity Short-term (acute toxic) Long-term (chrown (chrown)) Carcinogenicity Serious eye dantice to the serious eye invitation Flammable liquities to the series to the	nage ids			

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



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

Classification of the mixture:

Flam. Liq. 3	H226
Acute Tox. 3	H301
Acute Tox. 4	H332
Eye Irrit. 2	H319
Carc. 2	H351
STOT RE 2	H373
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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