



Vers 6.0	sion	Revision Date: 2024/09/28		S Number: 9471-00021	Date of last issue: 2023/09/30 Date of first issue: 2016/06/28
1. PF	RODUC	T AND COMPANY IDI	ENT	IFICATION	
	Produc	t name	:	Enilconazole Sm	oke Formulation
	Manufa	acturer or supplier's c	letai	ls	
	Compa	iny	:	MSD	
	Addres	S	:		venue rsey U.S.A. 07065
	Teleph	one	:	908-740-4000	
	Emerge	ency telephone number	r:	1-908-423-6000	
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the cl	nem	ical and restriction	ons on use
		mended use tions on use	:	Veterinary produce Not applicable	ct

2. HAZARDS IDENTIFICATION

GHS Classification Oxidizing solids	:	Category 1
Serious eye damage/eye irri- tation	:	Category 2A
Carcinogenicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H271 May cause fire or explosion; strong oxidizer. H319 Causes serious eye irritation. H351 Suspected of causing cancer.



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		or repeated e	use damage to organs (Liver) through prolonged xposure. kic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not H and understoo P210 Keep av P220 Keep/ S P221 Take an P260 Do not H P264 Wash sh P273 Avoid re P280 Wear pr tion/ face prot	way from heat. tore away from clothing/ combustible materials. by precaution to avoid mixing with combustibles. breathe dust. kin thoroughly after handling. elease to the environment. rotective gloves/ protective clothing/ eye protec-
		for several mi easy to do. Co P306 + P360 nated clothing clothes. P308 + P313 attention. P337 + P313 tention. P371 + P380	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF ON CLOTHING: rinse immediately contamig and skin with plenty of water before removing IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ at- + P375 In case of major fire and large quantities: a. Fight fire remotely due to the risk of explosion. spillage.
		Storage: P405 Store lo	cked up.
		•	e of contents/ container to an approved waste
Othe	r hazards which do no	P501 Dispose disposal plant	

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Talc	14807-96-6	>= 30 -< 60
1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-	35554-44-0	>= 10 -< 25



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imidazole		
Potassium chlorate	3811-04-9	>= 10 -< 30

4. FIRST AID MEASURES

	• • • •		
	General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately.
			When symptoms persist or in all cases of doubt seek medical advice.
	If inhaled	:	If inhaled, remove to fresh air. 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	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
			If easy to do, remove contact lens, if worn. Get medical attention.
	If swallowed	:	If swallowed, DO NOT induce vomiting.
			Get medical attention.
	Most important symptoms		Rinse mouth thoroughly with water.
	Most important symptoms and effects, both acute and	:	Causes serious eye irritation. Suspected of causing cancer.
	delayed		May cause damage to organs through prolonged or repeated
			exposure.
			Contact with dust can cause mechanical irritation or drying of
	Protection of first-aiders	:	the skin. 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).
	Notes to physician	:	Treat symptomatically and supportively.
5. F	IREFIGHTING MEASURES		
	Suitable extinguishing media	:	Water spray
			Alcohol-resistant foam
			Carbon dioxide (CO2)
			Dry chemical
	Unsuitable extinguishing media	:	None known.
	Specific hazards during fire-	:	Avoid generating dust; fine dust dispersed in air in sufficient
	fighting		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.



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			Metal oxides	
Spe ods	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.	
	cial protective equipment refighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCIE	DENTAL RELEASE MEAS	SUF	RES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Remove all sourc Use personal prot Follow safe handl	onnel should re-enter the area.
Env	Environmental precautions		Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	nods and materials for ainment and cleaning up	:	Avoid dispersal of with compressed Flush with water. Suppress (knock spray jet. Dust deposits sho es, as these may leased into the atr Local or national in posal of this mate employed in the c mine which regula Sections 13 and 1	t absorbent material. [;] dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding



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Loca	al/Total ventilation	: Use only with a If advised by a only in an area	or inert atmospheres. adequate ventilation. ssessment of the local exposure potential, use a equipped with explosion-proof exhaust ventila-
Advi	ce on safe handling	Wash skin tho Handle in accor practice, based sessment Keep containe Keep containe Keep away fro other ignition s Take precautio Keep away fro	Ι.
Con	ditions for safe storage	: Keep in proper Store locked u Keep tightly clo Keep in a cool Keep away fro Store in accord	bsed. , well-ventilated place. m direct sunlight. dance with the particular national regulations. m heat and sources of ignition.
Mate	erials to avoid	: Do not store w Self-reactive s Organic perox Flammable ga Flammable liq Pyrophoric liqu Pyrophoric sol Self-heating su	ith the following product types: ubstances and mixtures des ses uids ids ubstances and mixtures id mixtures, which in contact with water, emit es

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Talc	14807-96-6	NAB (Res- pirable par-	2 mg/m3	ID OEL





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			ticulate mat- ter)				
	enou	Further information: Not classified as carcinogenic to humans. Not enough data to classify these materials as carcinogenic to hu- mans or animals					
			TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH		
1-[2-(allyloxy)-2-(2,4- dichlorophenyl)ethyl]-1H- imidazole	3555	54-44-0	TWA	0.3 mg/m3 (OEB 2)	Internal		
	Furth	ner informa	ation: Skin				
Engineering measures	com All e des	pound. engineering ign and op	g controls shoul	trols to minimize exp d be implemented by dance with GMP prin d the environment.	/ facility		
Personal protective equipm	ent						
Respiratory protection Filter type Hand protection	sure omr	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type					
Material	: Che	Chemical-resistant gloves					
Remarks			t the product is f of hand protection	flammable, which ma	ay impact		
Eye protection	: Wea If th mist Wea pote	ar safety g e work env ts or aeros ar a facesh	lasses with side vironment or act ols, wear the ap nield or other ful	e shields or goggles. tivity involves dusty oppropriate goggles. I face protection if the he face with dusts, n	ere is a		
Skin and body protection Hygiene measures	: If exe ing Who Was The eng app indu	posure to flushing s place. en using d sh contam effective o ineering co ropriate de istrial hygi	ystems and safe o not eat, drink inated clothing b operation of a fa ontrols, proper p egowning and de	ly during typical use, ety showers close to or smoke. before re-use. acility should include bersonal protective e econtamination proc medical surveillance	the work- review of quipment, edures,		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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С	olour	:	Grey-brown	
0	dour	:	No data available	9
0	dour Threshold	:	No data available	9
pl	Н		No data available	9
Μ	elting point/freezing point	:	No data available	9
	itial boiling point and boiling Inge	:	No data available	9
FI	ash point	:	No data available	9
E	vaporation rate	:	No data available	9
FI	ammability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.
FI	lammability (liquids)	:	No data available	9
	pper explosion limit / Upper ammability limit	:	No data available	9
	ower explosion limit / Lower ammability limit	:	No data available	9
V	apour pressure	:	No data available	9
R	elative vapour density	:	No data available	9
R	elative density	:	No data available	9
D	ensity	:	No data available	9
S	olubility(ies) Water solubility	:	No data available	9
	artition coefficient: n-	:	No data available	9
	ctanol/water uto-ignition temperature	:	No data available	9
D	ecomposition temperature	:	No data available	9
Vi	iscosity Viscosity, kinematic	:	No data available	9
E	xplosive properties	:	Not explosive	





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0	xidizing properties	:	The substance o category 1.	r mixture is classified as oxidizing with the			
М	olecular weight	:	No data available	9			
	article characteristics article size	:	No data available	9			
0. ST	ABILITY AND REACTIVITY	,					
CI Po	eactivity hemical stability ossibility of hazardous reac- ons	:	Stable under norm May form explosi dling or other me Exposure to meta cause a violent re	ve dust-air mixture during processing, han-			
C	onditions to avoid	:	Heat, flames and				
In	compatible materials	:	 Avoid dust formation. Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents Flammable materials 				
	azardous decomposition oducts	:	Organic materials : No hazardous decomposition products are known.				
1. TO	XICOLOGICAL INFORMAT	101	1				
	formation on likely routes of posure	:	Inhalation Skin contact Ingestion Eye contact				
	cute toxicity ot classified based on availa	ble	information.				
	roduct:						
A	cute oral toxicity	:	LD50 (Rat): 2,100	- 2,800 mg/kg			
A	cute inhalation toxicity	:	LC0 (Rat): 10.73 mg/l Test atmosphere: dust/mist Remarks: No mortality observed at this dose.				
A	cute dermal toxicity	:	LD50 (Rat): > 2,00	00 mg/kg			
			LD50 (Rabbit): > 0.6 ml/kg				
<u>C</u> (omponents:						
	alc:						
	cute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg			
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II			Remarks: Base	ed on data from similar materials
1-[2-(;	allyloxy)-2-(2,4-dichlor	oph	enyl)ethyl]-1H·	imidazole:
Acute	oral toxicity	:	LD50 (Rat): 22 Remarks: Base 1272/2008, An	ed on harmonised classification in EU regula
			LD50 (Mouse)	: 390 - 620 mg/kg
			LD50 (Dog): >	640 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 1.8 Exposure time Test atmosphe Remarks: Base 1272/2008, An	: 4 h ere: dust/mist ed on harmonised classification in EU regula
Acute	dermal toxicity	:	LD50 (Rat): 4,2	200 - 4,800 mg/kg
			LD50 (Rabbit):	4,200 mg/kg
	toxicity (other routes of istration)	:		5 mg/kg ute: Intraperitoneal
Potas	sium chlorate:			
Acute	oral toxicity	:	Acute toxicity e Method: Exper	estimate (Humans): 100 mg/kg t judgement
Acute	inhalation toxicity	:		:4 h
Acute	dermal toxicity	:		2,000 mg/kg) Test Guideline 402 The substance or mixture has no acute derma
II Skin (corrosion/irritation			

Product:

Species	:	Rabbit
Result	:	No skin irritation

Components:

Talc:



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Speci	es	:	Rabbit	
Resul	t	:	No skin irritation	I
	allyloxy)-2-(2,4-dich	loroph		midazole:
Specie Resul		:	Rabbit Mild skin irritatio	n
Potas	sium chlorate:			
Speci	es	:	Rabbit	
Resul	-	:	No skin irritation	
Rema	rks	:	Based on data f	rom similar materials
	us eye damage/eye		on	
	es serious eye irritatio	on.		
<u>Produ</u>				
Speci		:	Rabbit	
Resul	t	:	Moderate eye ir	ritation
<u>Comp</u>	oonents:			
Talc:				
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
1-[2-(a	allyloxy)-2-(2,4-dich	loroph	enyl)ethyl]-1H-i	midazole:
Speci		:	Rabbit	
Resul		:	Irreversible effe	•
Rema	IKS	•	1272/2008, Ann	onised classification in EU regulati ex VI
Speci	es	:	Rabbit	
Resul	t	:	Moderate eye ir	
Rema	rks	:	Based on harmo 1272/2008, Ann	onised classification in EU regulat ex VI
Potas	sium chlorate:			
Speci	es	:	Rabbit	
Resul		:	No eye irritation	
Metho	bd	:	OECD Test Gui	deline 405
Respi	ratory or skin sensi	itisatio	n	
	sensitisation assified based on ava	ailable	information.	



rsion)	Revision Date: 2024/09/28	SDS Number:Date of last issue: 2023/09/30785471-00021Date of first issue: 2016/06/28
<u>Produ</u> Specie Result	es	: Guinea pig : Not a skin sensitizer.
<u>Comp</u>	onents:	
Talc:		
Expos	ure routes	: Skin contact
Specie Result		: Humans : negative
INCOUNT		. Tegauve
		llorophenyl)ethyl]-1H-imidazole:
Test T		: Maximisation Test
Expos	ure routes	: Dermal : Guinea pig
Result		: equivocal
Expos	ure routes	: Dermal
Specie		: Humans
Result	:	: Not a skin sensitizer.
Potas	sium chlorate:	
Test T		: Maximisation Test
	ure routes	: Skin contact
Specie		: Guinea pig
Metho Result	-	: OECD Test Guideline 406 : negative
Rema		: Based on data from similar materials
	cell mutagenicity assified based on av	vailable information
	onents:	
Talc:		
Genot	oxicity in vitro	: Test Type: DNA damage and repair, unscheduled DNA sy thesis in mammalian cells (in vitro) Result: negative
Genot	oxicity in vivo	: Test Type: Chromosome aberration test in vitro Species: Rat Application Route: Ingestion Result: negative
11 1-[2-(;	allvloxy)-2-(2.4-dich	lorophenyl)ethyl]-1H-imidazole:
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
11		



ersion 0	Revision Date: 2024/09/28	SDS Number: 785471-00021	Date of last issue: 2023/09/30 Date of first issue: 2016/06/28
		Result: negat Test Type: ge Test system: Result: negat Test Type: ur	ene mutation test Chinese hamster fibroblasts ive nscheduled DNA synthesis assay rat hepatocytes
Geno	toxicity in vivo	Species: Rat Application R Result: negat	ive
		Species: Mou Application R Result: negat	oute: Oral
Potas	ssium chlorate:	Species: Mou Result: negat	
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
		Method: OEC Result: negat	vitro mammalian cell gene mutation test D Test Guideline 476 ive sed on data from similar materials
		thesis in mam Method: OEC Result: negat	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) D Test Guideline 482 ive sed on data from similar materials
Geno	toxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC Result: negat	use oute: Ingestion D Test Guideline 474

Carcinogenicity

Suspected of causing cancer.



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Com	ponents:		
	ies cation Route sure time	: Mouse : inhalation (dus : 2 Years : negative	t/mist/fume)
1-[2-(allyloxy)-2-(2,4-dichlo	prophenyl)ethyl]-1H	imidazole:
Spec Appli	ies cation Route sure time EL	: Rat : Oral : 2 Years : 40 mg/kg body : negative	
Expo LOAE Resu	cation Route sure time EL	: Mouse : Oral : 2 Years : 33 mg/kg body : positive : Liver	^r weight
Expo NOAI LOAE Resu	cation Route sure time EL EL It et Organs	 Mouse oral (feed) 23 Months 8 mg/kg body 105 mg/kg body positive Liver Based on harm 1272/2008, An 	ly weight
Carci ment	nogenicity - Assess-	: Limited eviden	ce of carcinogenicity in animal studies
Pota	ssium chlorate:		
	cation Route sure time It	: Rat : Ingestion : 106 weeks : negative : Based on data	from similar materials
Not c	oductive toxicity lassified based on avai ponents:	lable information.	
Talc: Effec ment	ts on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	



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II

1-[2-(allyloxy)-2-(2,4-dichlorop	ohenyl)ethyl]-1H-imidazole:
Effects on fertility	 Test Type: Multi-generation study Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 20 mg/kg body weight Result: Maternal toxicity observed., Embryotoxic effects and adverse effects on the offspring were detected. Remarks: Not classified due to data which are conclusive although insufficient for classification.
Effects on foetal develop-	: Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 80 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects and ad- verse effects on the offspring were detected only at high ma- ternally toxic doses Remarks: The effects were seen only at maternally toxic dos- es.
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Maternal toxicity observed., No teratogenic effects, Postimplantation loss. Remarks: The effects were seen only at maternally toxic dos- es.
Potassium chlorate:	
Effects on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials
Effects on foetal develop-	 Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure.



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Components:

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

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

Repeated dose toxicity

Components:

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

Species	: Rat
NOAEL	: 5 mg/kg
LOAEL	: 20 mg/kg
Application Route	: Oral
Exposure time	: 3 - 24 Months
Target Organs	: Liver
Symptoms	: decrease in appetite
Species	: Dog
NOAEL	: 2.5 mg/kg
LOAEL	: 20 mg/kg
Application Route	: Oral
Exposure time	: 12 Months

Species	: Mouse
NOAEL	: 12 mg/kg
LOAEL	: 140 mg/kg
Application Route	: Oral
Exposure time	: 3 Months
Target Organs	: Liver

Potassium chlorate:

Symptoms

Species	: Rat
NOAEL	: > 100 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Species NOAEL Application Route Exposure time Remarks	: Based on data from similar materials

: Salivation, Vomiting

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

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

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





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Inges	tion	:	Symptoms: Naus	ea
2. ECOL	OGICAL INFORMATION	N		
Ecoto	oxicity			
<u>Com</u>	ponents:			
Talc:				
Toxic	ity to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l 4 h
1-[2-(allyloxy)-2-(2,4-dichlor	oph	enyl)ethyl]-1H-im	idazole:
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 96 Method: OECD T	
			LC50 (Lepomis m Exposure time: 96 Method: OECD T	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 2 ⁻⁷ Method: OECD T	
M-Fa toxicit	ctor (Chronic aquatic ty)	:	10	
Potas	ssium chlorate:			
Toxic	ity to fish	:	Exposure time: 96	shus mykiss (rainbow trout)): > 100 mg/l ວິ h on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h on data from similar materials
Toxic	ity to algae/aquatic	:	EC50 (Lemna mir	nor (duckweed)): > 10 - 100 mg/l

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plants	S		Exposure time: 7 Method: OECD To Remarks: Based	
			Exposure time: 7 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 36 Method: OECD To	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 21 Method: OECD To	
Toxic	ity to microorganisms	:	Exposure time: 3 Method: OECD Te	h
Persi	istence and degradabili	ity		
Com	ponents:			
	(allyloxy)-2-(2,4-dichlor egradability	oph :	enyl)ethyl]-1H-im Result: not rapidly Biodegradation: 5 Exposure time: 16	/ degradable 50 %
II Bioa	ccumulative potential			
	ponents:			
	(allyloxy)-2-(2,4-dichlor	oph	enyl)ethyl]-1H-im	idazole:
	ion coefficient: n- nol/water	:	log Pow: 3.82	
Mobi	lity in soil			
Com	ponents:			
Distri	(allyloxy)-2-(2,4-dichlor bution among environ- al compartments	-		idazole:
Othe	r adverse effects ata available			
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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	UN 1485 POTASSIUM CHLORATE MIXTURE 5.1 II 5.1 no	
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-	UN 1485 Potassium chlorate Mixture 5.1 II Oxidizer 562 558	
ger aircraft)		
IMDG-Code UN number Proper shipping name Class	UN 1485 POTASSIUM CHLORATE MIXTURE (1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-11 5.1	H-imidazole)
Packing group Labels EmS Code Marine pollutant	II 5.1 F-H, S-Q yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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



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15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances
Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Potassium chlorate control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date	:	2024/09/28
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

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

Date format

: yyyy/mm/dd



Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
6.0	2024/09/28	785471-00021	Date of first issue: 2016/06/28

Full text of other abbreviations

	USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits
	8-hour, time-weighted average Long term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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

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