Revision Date: 31.01.2024

Version

1.1



Date of last issue: 22.04.2023

Date of first issue: 22.04.2023

Starycide® Insect Growth Regulator

SDS Number:

11196019-00002

tion 1: Identification		
Product name	:	Starycide® Insect Growth Regulator
Product code	:	Article/SKU: 79101589 UVP: 79037848 Specifica 102000017278
Manufacturer or supplier's de	eta	ils
Company	:	Garrards (NZ) Ltd.
Address	:	Unit 4/27B Cain Rd Penrose, New Zealand 8140
Telephone	:	0800 10 22 76
Emergency telephone number	:	+64 9801 0034 0800 425 459
Recommended use of the ch		
Recommended use	:	Insecticide
Restrictions on use	:	Not applicable
Restrictions on use	:	Not applicable
Restrictions on use	:	Not applicable
	:	Not applicable
tion 2: Hazard identification	:	Not applicable
tion 2: Hazard identification GHS Classification	:	
tion 2: Hazard identification GHS Classification Skin sensitisation	:	Category 1
tion 2: Hazard identification GHS Classification Skin sensitisation Carcinogenicity Hazardous to the aquatic	: : :	Category 1 Category 1
tion 2: Hazard identification GHS Classification Skin sensitisation Carcinogenicity Hazardous to the aquatic environment - acute hazard Hazardous to the aquatic	: : : :	Category 1 Category 1 Category 1
tion 2: Hazard identification GHS Classification Skin sensitisation Carcinogenicity Hazardous to the aquatic environment - acute hazard Hazardous to the aquatic environment - chronic hazard	: : : :	Category 1 Category 1 Category 1
tion 2: Hazard identification GHS Classification Skin sensitisation Carcinogenicity Hazardous to the aquatic environment - acute hazard Hazardous to the aquatic environment - chronic hazard GHS label elements	: : : :	Category 1 Category 1 Category 1



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Ducco		H350 May cau H410 Very tox	se cancer. ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understood P261 Avoid bre P272 Contamin the workplace. P273 Avoid rel	eathing mist or vapours. nated work clothing should not be allowed out o ease to the environment. ntective gloves/ protective clothing/ eye protec-
		P308 + P313 I attention. P321 Specific on this label).	F ON SKIN: Wash with plenty of water. F exposed or concerned: Get medical advice/ treatment (see supplemental first aid instruction f skin irritation or rash occurs: Get medical ad- pillage.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycerine	56-81-5	>= 10 -< 20
Kaolin	1332-58-7	>= 1 -< 10
Triflumuron	64628-44-0	>= 2.5 -< 10
Silica gel, precipitated, crystalline free	112926-00-8	>= 1 -< 10
Arylethylphenylpolyglykol ether	104376-75-2	>= 1 -< 2.5
(Benzyloxy)methanol	14548-60-8	>= 0.1 -< 1
Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	>= 0.0015 -< 0.0025



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Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	2682-20-4, 26172-55-4

Section 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	No symptoms known or expected. May cause an allergic skin reaction. May cause cancer.
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).
Notes to physician	:	There is no specific antidote available. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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			Dry chemical	
Unsui media	table extinguishing	:	None known.	
Speci fightin	fic hazards during fire- g	:	Exposure to con	nbustion products may be a hazard to healt
Hazaı ucts	dous combustion prod-	:	Carbon oxides Silicon oxides Metal oxides	
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local ci the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to
•	al protective equipment efighters	:		re, wear self-contained breathing apparatus otective equipment.
Hazcl	nem Code	:	3Z	

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).	
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.	



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Techr	nical measures	:		measures under EXPOSURE SONAL PROTECTION section.
Local	/Total ventilation	:	If sufficient ventila ventilation.	tion is unavailable, use with local exhaust
Advic	e on safe handling	:	practice, based o sessment Keep container tig	nist or vapours. h eyes. ance with good industrial hygiene and safety n the results of the workplace exposure as-
Hygie	ene measures	:	flushing systems place. When using do no Contaminated wo workplace.	emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. ork clothing should not be allowed out of the ed clothing before re-use.
Cond	itions for safe storage	:	Store locked up. Keep tightly close	labelled containers. ed. Ice with the particular national regulations.
Mater	rials to avoid	:	Do not store with Strong oxidizing a	the following product types: agents

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Glycerine	56-81-5	WES-TWA (Mist)	10 mg/m3	NZ OEL		
Kaolin	1332-58-7	WES-TWA	10 mg/m3	NZ OEL		
		WES-TWA (Respirable dust)	2 mg/m3	NZ OEL		
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH		
Silica gel, precipitated, crystal-	112926-00-8	WES-TWA	10 mg/m3	NZ OEL		

Components with workplace control parameters



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line fr	ee		1		I		
		lf su	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.				
	onal protective equip	: If ad sure	assessment demo	onstrates exposu	not available or expo- ires outside the rec-		
Fil	ter type	: Com	ommended guidelines, use respiratory protection. Combined particulates, inorganic gas/vapour and organic vapour type				
Ma Br Gl	protection aterial eak through time ove thickness otective index						
Re	emarks	on tl stan we r afore	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. For special applications we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufactur- er. Wash hands before breaks and at the end of workday.				
Eye p	protection		Wear the following personal protective equipment: Safety glasses				
Skin a	and body protection	resis pote Skin	ect appropriate prot stance data and an ntial. a contact must be a ning (gloves, apron	avoided by using			

Section 9: Physical and chemical properties

Appearance	: suspension	
Colour	: brown	
Odour	: characteristic, very faint	
Odour Threshold	: No data available	



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рН		:	6 - 8 (23 °C) Concentration: 1	00 %
Mel	ting point/freezing point	:	No data available	
Initi rang	al boiling point and boiling ge	:	No data available	
Flas	sh point	:	boils before flash	1
Eva	poration rate	:	No data available	•
Flar	mmability (solid, gas)	:	Not applicable	
Flar	nmability (liquids)	:	No data available)
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available	
Vap	oour pressure	:	No data available	
Rela	ative vapour density	:	No data available	
Rela	ative density	:	No data available	
Der	nsity	:	ca. 1.12 g/cm³ (2	20 °C)
	ubility(ies) Water solubility	:	dispersible	
	tition coefficient: n- anol/water	:	Not applicable	
Aut	o-ignition temperature	:	No data available	
Dec	composition temperature	:	No data available	9
	cosity Viscosity, dynamic	:	200 - 340 mPa.s	(20 °C)
,	Viscosity, kinematic	:	No data available	
Exp	olosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance c	r mixture is not classified as oxidizing.



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Parl	icle size	:	Not applicable	
Section	10: Stability and reactivi	ity		
Rea	ctivity	:	Not classified a	as a reactivity hazard.
Che	mical stability	:	Stable under n	ormal conditions.
Pos tion	sibility of hazardous reac- s	:	Can react with	strong oxidizing agents.
Con	ditions to avoid	:	None known.	
Inco	mpatible materials	:	Oxidizing agen	ts
	ardous decomposition lucts	:	No hazardous	decomposition products are known.
Section	11: Toxicological inform	atic	on	
Exp	osure routes	:	Inhalation Skin contact Ingestion Eye contact	
Acu	te toxicity			
-	classified based on availal	ble	information.	
	nponents:			
-	cerine: te oral toxicity	:	LD50 (Rat): >5	,000 mg/kg
Acu	te dermal toxicity	:	LD50 (Guinea p	big): > 5,000 mg/kg
Kac	olin:			
	te oral toxicity	:	LD50 (Rat): > 5 Remarks: Base	,000 mg/kg d on data from similar materials
Acu	te inhalation toxicity	:	tion toxicity	4 h
Acu	te dermal toxicity	:	LD50 (Rat): > 5 Assessment: Th toxicity	,000 mg/kg ne substance or mixture has no acute dermal



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Triflu	muron:		
	e oral toxicity	: LD50 (Rat): > Method: OEC	> 5,000 mg/kg CD Test Guideline 401
Acute	inhalation toxicity	Method: OEC	•
Acute	e dermal toxicity	: LD50 (Rat): > Method: OEC	> 5,000 mg/kg CD Test Guideline 402
Silica	a gel, precipitated, cr	ystalline free:	
Acute	oral toxicity		> 5,000 mg/kg CD Test Guideline 401 sed on data from similar materials
Acute	inhalation toxicity		
Acute	e dermal toxicity	: LD50 (Rabbit Remarks: Ba): > 5,000 mg/kg sed on data from similar materials
Aryle	thylphenylpolyglyko	l ether:	
Acute	e oral toxicity	: LD50 (Rat): > Method: OEC	> 2,000 mg/kg CD Test Guideline 401
(Benz	zyloxy)methanol:		
Acute	oral toxicity	: LD50 (Rat, fe	male): 812 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure tim Test atmosph	
Acute	e dermal toxicity	: LD50 (Rat, m	ale): 1,429 mg/kg
	tion mass of: 5-chloro- azol-3-one [EC no. 22		in-3-one [EC no. 247-500-7] and 2-methyl-2
Acute	oral toxicity	: LD50 (Rat): 6	64 mg/kg
Acute	inhalation toxicity		



Acute demal toxicity : LD50 (Rabbit): 87.12 mg/kg Skin corrosion/irritation Not classified based on available information. Components: Species Bypecies : Rabbit Result : No skin irritation Species : Rabbit Method : OECD Test Guideline 404 Result : OECD Test Guideline 404 Result : DECD Test Guideline 404 Result : DECED Test Guideline 404 Result : DECE Test Guideline 404 Result : DECE Test Guideline 404 Result : DECE Test Guideline 404 Result : Decies Species : Rabbit Method : DECE Test Guideline 404 Result : Decine test Guideline 404 Result : Skin irritation Result : Skin irritation Result : Skin irritation Result	sion	Revision Date: 31.01.2024	SDS Number: 11196019-00002	Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
Skin corrosion/irritation Not classified based on available information. Components: Species Remarks Species Result Species Rebit Method Species Result Species Result Species Rabbit <t< td=""><td></td><td></td><td></td><td></td></t<>				
Not classified based on available information. Components: Glycerine: Species : Rabbit Result : No skin irritation Kaolin: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit	Acute	e dermal toxicity	: LD50 (Rabbit):	87.12 mg/kg
Components: Species Rabbit Result No skin irritation Xaolin: Species Species Rabbit Method COECD Test Guideline 404 Result No skin irritation Result No skin irritation Result No skin irritation Remarks Based on data from similar materials Triflumuron: Species Species Rabbit Method COECD Test Guideline 404 Result OECD Test Guideline 404 Result No skin irritation Species Rabbit Method COECD Test Guideline 404 Result OECD Test Guideline 404 Result Shin irritation Remarks Based on data from similar materials (Benzyloxy)methanol: Skin irritation Species Rabbit Method Colros2-239-6] (3:1): Species Rabbit Method </td <td></td> <td></td> <td></td> <td></td>				
Species : Rabbit Result : No skin irritation Xaolin: : Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: : Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Slica gel, precipitated, crystalline free: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : No skin irritation Result : No skin irritation Result : Skin irritation Result : Skin irritation Result : Skin irritation Result : </td <td></td> <td></td> <td>ilable information.</td> <td></td>			ilable information.	
Species : Rabbit Result : No skin irritation Kaolin:	-			
Result : No skin irritation Kaolin: : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: Species : Rabbit Method : OECD Test Guideline 404 Result : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation	-		: Rabbit	
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: : Species Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2				n
Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available inform	Kaoli	n:		
Result : No skin irritation Remarks : Based on data from similar materials Triflumuron: : Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components:	•			videline 404
Triflumuron: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free:				
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit	Rema	ırks	: Based on data	from similar materials
Method : OECD Test Guideline 404 Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				
Result : No skin irritation Silica gel, precipitated, crystalline free: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit	•			videline 404
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				
Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rabbit Result : Skin irritation Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit	Silica	ı gel, precipitated, cr	ystalline free:	
Result : No skin irritation Remarks : Based on data from similar materials (Benzyloxy)methanol: . Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				
Remarks : Based on data from similar materials (Benzyloxy)methanol:				
Species : Rabbit Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit		-		
Result : Skin irritation Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2 isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit	(Benz	zyloxy)methanol:		
isothiazol-3-one [EC no. 220-239-6] (3:1): Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				
Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				n-3-one [EC no. 247-500-7] and 2-methyl-2H-
Result : Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Not classified based on available information. Components: Glycerine: Species : Rabbit				
Not classified based on available information. Components: Glycerine: Species : Rabbit				
Glycerine: Species : Rabbit				
Species : Rabbit				
	-			
	Resul	ι	ino eye irritatio	11



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Kao	lin:				
Spe	cies	: Rabbit			
Res		: No eye irritation			
Rem	narks	: Based on data	from similar materials		
Trifl	umuron:				
Spe		: Rabbit			
Res		: No eye irritation			
Metl	hod	: OECD Test Gu	ideline 405		
Silio	ca gel, precipitated, c	rystalline free:			
Spe		: Rabbit			
Res		: No eye irritation			
Metl		: OECD Test Gu			
Ren	narks	: Based on data	from similar materials		
-	nzyloxy)methanol:				
Spe		: Rabbit			
Res	ult	: Irreversible effe	ects on the eye		
	ction mass of: 5-chloro niazol-3-one [EC no. 22		-3-one [EC no. 247-500-7] and 2-methyl-2H-		
Res	ult	: Irreversible effe	ects on the eye		
Rem	narks	: Based on skin	corrosivity.		
Res	piratory or skin sensi	tisation			
Skir	n sensitisation				
May	cause an allergic skin	reaction.			
	piratory sensitisation				
	classified based on ava	allable information.			
	nponents:				
Trifl	umuron:				
Test	Туре	: Maximisation T	est		
	osure routes	: Skin contact			
Spe		: Guinea pig	· · · · · · · · · · · · · · · · · · ·		
Metl		: OECD Test Gu	Ideline 406		
Res	uit	: negative			
(Beı	nzyloxy)methanol:				
	Туре	: Magnusson-Kli	gman-Test		
	osure routes	: Skin contact			
Spe Res		: Guinea pig			
Res	uit	: positive			



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Asse	ssment	: Probability rate in hur	or evidence of low to moderate skin sensitisation nans
	tion mass of: 5-chloro azol-3-one [EC no. 22		zolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
Test Expo Spec Resu	sure routes ies	: Buehler Te : Skin conta : Guinea pig : positive	ct
Asse	ssment	: Probability mans	or evidence of high skin sensitisation rate in hu-
Chro	nic toxicity		
	n cell mutagenicity lassified based on ava	ilable information	
_	ponents:		
Glyce	erine:		
Geno	toxicity in vitro	: Test Type: Result: ne	In vitro mammalian cell gene mutation test gative
		Test Type: Result: ne	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: ne	Chromosome aberration test in vitro gative
			DNA damage and repair, unscheduled DNA syn- nammalian cells (in vitro) gative
Triflu	imuron:		
	toxicity in vitro	: Test Type: Result: ne	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: ne	In vitro mammalian cell gene mutation test gative
			Chromosome aberration test in vitro ECD Test Guideline 473 gative
Silica	a gel, precipitated, c	ystalline free:	
	toxicity in vitro	: Test Type: Result: ne	Chromosome aberration test in vitro gative Based on data from similar materials



Starycide® Insect Growth Regulator

ersion .1	Revision Date: 31.01.2024	-	S Number: 196019-00002	Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
Genoto	oxicity in vivo	:	Species: Rat Application Rou Result: negative	
(Benzy	/loxy)methanol:			
	oxicity in vitro	:	Test Type: Bac Result: positive	terial reverse mutation assay (AMES)
			Result: positive	tro mammalian cell gene mutation test ed on data from similar materials
			Result: positive	omosome aberration test in vitro
Genoto	oxicity in vivo	:	cytogenetic ass Species: Rat Application Rou Result: positive	nmalian erythrocyte micronucleus test (in v say) ute: inhalation (vapour) ed on data from similar materials
Germ (Assess	cell mutagenicity - sment	:		s) from in vivo non-mammalian somatic ce sts, supported by positive results from in vi ssays.
Carcin	ogenicity			
May ca	ause cancer.			
Comp	onents:			
Glycer	ine:			
Specie		:	Rat	
	ation Route	:	Ingestion	
Result	ure time	:	2 Years negative	
Triflun	nuron:			
Specie		:	Rat	
	ation Route ure time	:	Ingestion 2 Years	
Result		:	negative	
Silica	gel, precipitated, cr	ystalli	ne free:	
Specie		:	Rat	
	ation Route	:	Ingestion 103 weeks	
	ure time	:	103 weeks	



ment Reproductive toxicity Not classified based on available information. Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Triflumuron:	sion	Revision Date: 31.01.2024	SDS Num 11196019		Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rat Application Route : Inhalation Exposure time : 28 Months Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Assesses : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Mont classified based on available information. Components: City carcinogenicity : Assesses Glycerine: : : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop Effects on foetal develop : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop Effects on foetal develop : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Species: Rat Application Route					
Remarks : Based on data from similar materials (Benzyloxy)methanol: : Species : Rat Application Route : Inhalation Exposure time : 28 Months Result : positive Result : Positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Assess- : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Not classified based on available information. Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- : Test Type: Embryo-foetal devel	Result		: negati	ve	
Species : Rat Application Route : Inhalation Exposure time : 28 Months Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Not classified based on available information. Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Result: negative Remarks: Based on data from similar materials	Remark	S			m similar materials
Application Route : Inhalation Exposure time : 28 Months Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Not classified based on available information. Components: Glycerine: : : Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Imbryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based	(Benzy	loxy)methanol:			
Exposure time : 28 Months Result : positive Remarks :: Based on data from similar materials Carcinogenicity - Assess- :: Sufficient evidence of carcinogenicity in animal experimment Reproductive toxicity Not classified based on available information. Components: Glycerine: Effects on fertility :: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment :: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: :: Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment :: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment :: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop-ment :: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: :: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: :: Rest Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative					
Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess					
Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experim ment Reproductive toxicity Not classified based on available information. Components: Glycerine: : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabiti Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabiti Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :		re time			
ment Reproductive toxicity Not classified based on available information. Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study. Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Effects on foetal develop- ment : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Ratbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :		S	•		m similar materials
Not classified based on available information. Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Effects on fertility : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :		genicity - Assess-	: Suffici	ent evidence	e of carcinogenicity in animal experin
Components: Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Cifeenzyloxy)methanol: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative	Reprod	luctive toxicity			
Glycerine: Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Remarks: Based on data from similar materials (Benzyloxy)methanol: :	Not clas	ssified based on ava	ilable informa	ation.	
Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Ratbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: : Result: negative Effects on foetal development : Result: negative Silica gel, precipitated, crystalline free: : Result: negative Effects on foetal development : Result: negative Effects on foetal development : Result: negative : Result: negative <	-				
Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Triflumuron: : Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :	Glyceri	ne:			
ment Species: Rat Application Route: Ingestion Result: negative Triflumuron: Effects on fertility Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :	Effects	on fertility	Speci Applic	es: Rat ation Route:	
Application Route: Ingestion Result: negative Triflumuron: Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :		on foetal develop-			o-foetal development
Effects on fertility : Test Type: Three-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol: :	ment		Applic	ation Route:	Ingestion
Species: Rat Application Route: Ingestion Result: negative Effects on foetal development ment Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal development ment Silica gel, precipitated, crystalline free: Effects on foetal development Species: Rat Application Route: Ingestion Result: negative Result: negative Kata Kata Result: negative Result: negative Result: negative Remarks: Based on data from similar materials	Triflum	uron:			
Application Route: Ingestion Result: negative Effects on foetal development ment Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal development ment Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials	Effects	on fertility	: Test 7	Type: Three-g	generation reproduction toxicity stud
Effects on foetal development : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative : Test Type: Embryo-foetal development Silica gel, precipitated, crystalline free: : Test Type: Embryo-foetal development Effects on foetal development : Test Type: Embryo-foetal development Species: Rat : Application Route: Ingestion Result: negative : Result: negative (Benzyloxy)methanol: : Species: Rat			•		
ment Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal development ment Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:					Ingestion
ment Species: Rabbit Application Route: Ingestion Result: negative Silica gel, precipitated, crystalline free: Effects on foetal development ment Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:	Effects	on foetal develop-	: Test 1	Гуре: Embry	o-foetal development
Silica gel, precipitated, crystalline free: Effects on foetal development ment Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials	ment	-	Speci	es: Rabbit	
Effects on foetal development ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:					Ingestion
Effects on foetal development ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:	0				
ment Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:			-		o footal dovalarment
Application Route: Ingestion Result: negative Remarks: Based on data from similar materials (Benzyloxy)methanol:		on loetal develop-			
Remarks: Based on data from similar materials (Benzyloxy)methanol:	-		Applic	ation Route:	Ingestion
(Benzyloxy)methanol:					on data from similar materials
	-				
Effects on foetal develop- : Test Type: Embryo-foetal development		•••	- - =		
	Effects	on foetal develop-	: Test 1	lype: Embry	o-toetal development



rsion	Revision Date: 31.01.2024	SDS Number: 11196019-00002	Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
ment		Species: Mouse Application Rou	
		Result: negative	
		5	d on data from similar materials
STOT	- single exposure		
Not cl	assified based on av	ailable information.	
STOT	- repeated exposu	re	
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
	muron:		
Asses	sment	: No significant h tions of 100 mg	ealth effects observed in animals at concent /kg bw or less.
(Benz	yloxy)methanol:		
•			
Target	Organs	: Respiratory Tra	
Target	: Organs ssment	: Shown to produ	
Target Asses		: Shown to produ	ce significant health effects in animals at co
Target Asses Repe	sment	: Shown to produ	ce significant health effects in animals at co
Target Asses Repe	ated dose toxicity	: Shown to produ	ce significant health effects in animals at co
Target Asses Repea <u>Comp</u> Glyce Specie	ated dose toxicity conents: rine: es	: Shown to producentrations of >	ce significant health effects in animals at co
Target Asses Repea Comp Glyce Specie NOAE	ated dose toxicity ponents: rine: es	: Shown to producentrations of > : Rat : 0.167 mg/l	ce significant health effects in animals at co
Target Asses Repea Comp Glyce Specia NOAE LOAE	ated dose toxicity ponents: rine: es :L	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d.
Repea Repea Comp Glyce Specie NOAE LOAE Applic	ated dose toxicity ponents: rine: es	: Shown to producentrations of > : Rat : 0.167 mg/l	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d.
Target Asses Repea Comp Glyce Specie NOAE LOAE Applic Expos	ated dose toxicity ponents: rine: es :L L sation Route sure time es	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/second) 13 Weeks Rat 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Repea Repea Comp Glyce Specia NOAE LOAE Applic Expos Specia NOAE	ated dose toxicity ponents: rine: es :L L sation Route sure time es :L	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/ 13 Weeks Rat 8,000 - 10,000 m 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Repea Repea Comp Glyce Specie NOAE LOAE Applic Specie NOAE Applic	ated dose toxicity ponents: rine: es :L L sation Route sure time es :L sation Route	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/ 13 Weeks Rat 8,000 - 10,000 m Ingestion 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Repea Repea Comp Glyce Specia NOAE LOAE Applic Expose Specia NOAE Applic Expose	ated dose toxicity ponents: rine: es :L tation Route sure time es :L tation Route sure time	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/ 13 Weeks Rat 8,000 - 10,000 f Ingestion 2 yr 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Comp Glyce Specia NOAE LOAE Applic Expos Specia NOAE Applic Expos	ated dose toxicity ponents: rine: es :L tation Route sure time es :L sation Route sure time es	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/limit) 13 Weeks Rat 8,000 - 10,000 million Ingestion 2 yr Rabbit 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Comp Glyce Specie NOAE LOAE Applic Expos Specie NOAE Applic Expos	ated dose toxicity ponents: rine: es :L tation Route sure time es :L sation Route sure time es :L sation Route sure time	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/ 13 Weeks Rat 8,000 - 10,000 f Ingestion 2 yr Rabbit 5,040 mg/kg 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Comp Glyce Specie NOAE LOAE Applic Expos Specie NOAE Applic Expos	ated dose toxicity ponents: rine: es :L tation Route sure time es :L sation Route sure time es	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/limit) 13 Weeks Rat 8,000 - 10,000 million Ingestion 2 yr Rabbit 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Comp Glyce Specia NOAE Applic Expos Specia NOAE Applic Expos Specia NOAE Applic Expos	ated dose toxicity ponents: rine: es :L L sation Route sure time es :L sation Route sure time es :L sation Route sure time es :L sation Route	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/lip) 13 Weeks Rat 8,000 - 10,000 minute Ingestion 2 yr Rabbit 5,040 mg/kg Skin contact 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Comp Glyce Specia NOAE Applic Expos Specia NOAE Applic Expos Specia NOAE Applic Expos	ated dose toxicity ponents: rine: es :L L sation Route sure time es :L sation Route sure time es :L sation Route sure time es :L sation Route sure time es :L sation Route sure time	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/lip) 13 Weeks Rat 8,000 - 10,000 minute Ingestion 2 yr Rabbit 5,040 mg/kg Skin contact 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Glyce Specie NOAE LOAE Applic Expos Specie NOAE Applic Expos Specie NOAE Applic Expos Specie NOAE Expos Specie NOAE Expos Specie	ated dose toxicity onents: rine: es :L L sation Route sure time es :L sation Route sure time	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/li) 13 Weeks Rat 8,000 - 10,000 fi Ingestion 2 yr Rabbit 5,040 mg/kg Skin contact 45 Weeks Dog 13.95 mg/kg 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)
Target Asses Repea Glyce Specia NOAE LOAE Applic Expos Specia NOAE Applic Expos Specia NOAE Applic Expos Specia NOAE Applic Expos Specia NOAE Applic Expos	ated dose toxicity onents: rine: es :L L sation Route sure time es :L sation Route sure time es :L sation Route sure time es :L sation Route sure time es :L sation Route sure time	 Shown to producentrations of > Rat 0.167 mg/l 0.622 mg/l inhalation (dust/limits) 13 Weeks Rat 8,000 - 10,000 million Ingestion 2 yr Rabbit 5,040 mg/kg Skin contact 45 Weeks Dog 	ce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d. /mist/fume)



Version 1.1	Revision Date: 31.01.2024		DS Number: 196019-00002	Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
Silic	a gel, precipitated, c	rvstall	ine free:	
Spec		:	Rat	
NOA		:	> 4,500 mg/kg	
Appli	cation Route	:	Ingestion	
	sure time	:	90 Days	
Rema	arks	:	Based on data fi	rom similar materials
(Ben	zyloxy)methanol:			
Spec	ies	:	Rat	
LÖAE	EL	:	> 0.02 - 0.2 mg/	I
Appli	cation Route	:	inhalation (dust/	mist/fume)
Expo	sure time	:	90 Days	
Rema	arks	:	Based on data f	rom similar materials
Aspir	ation toxicity			
Not c	lassified based on ava	ailable	information.	

Section 12: Ecological information

Product:

Flouuci.		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 183 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00032 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	IC50 (Desmodesmus subspicatus (green algae)): 446 mg/l Exposure time: 72 h Test Type: Growth inhibition
Components:		
Glycerine:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
Kaolin:		
Toxicity to fish (Chronic tox- icity)	:	NOELR (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 30 d



ersion 1	Revision Date: 31.01.2024		9S Number: 196019-00002	Date of last issue: 22.04.2023 Date of first issue: 22.04.2023
Triflur	muron:			
Toxicit	ty to fish	:	Exposure time: Method: OECD	nchus mykiss (rainbow trout)): > 0.0242 mg/l 96 h Test Guideline 203 xicity at the limit of solubility
	ty to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): 0.0016 mg/l 48 h Test Guideline 202
Toxicit plants	ty to algae/aquatic	:	Exposure time: Method: OECD	lesmus subspicatus (green algae)): > 25 μg/l 72 h Test Guideline 201 xicity at the limit of solubility
			Exposure time: Method: OECD	lesmus subspicatus (green algae)): >= 25 μς 72 h Test Guideline 201 xicity at the limit of solubility
M-Fac icity)	tor (Acute aquatic tox-	:	100	
Toxicit icity)	ty to fish (Chronic tox-	:	mg/l Exposure time: Method: OECD	ales promelas (fathead minnow)): >= 0.0228 36 d Test Guideline 210 xicity at the limit of solubility
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time:	magna (Water flea)): 0.000018 mg/l 21 d
M-Fac toxicity	tor (Chronic aquatic y)	:	1,000	
Toxicit	ty to microorganisms	:	EC50 (activated Exposure time:	sludge): > 10,000 mg/l 3 h
Toxicit ganisn	ty to soil dwelling or- ns	:	EC50 (Eisenia f	etida (earthworms)): > 1,000 mg/kg
Toxicit isms	ty to terrestrial organ-	:	LD50 (Colinus v	irginianus (Bobwhite quail)): > 561.00 mg/kg
			LD50 (Apis mell	ifera (bees)): > 100 μg/bee
Silica	gel, precipitated, crys	talli	ne free:	
Toxicit	ty to fish	:	Exposure time:	o (zebra fish)): > 10,000 mg/l 96 h Test Guideline 203



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			Remarks: Based	on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: 2 Method: OECD T	nagna (Water flea)): > 1,000 mg/l 4 h est Guideline 202 on data from similar materials
Toxicit plants	ty to algae/aquatic	:	Exposure time: 7 Method: OECD T	nus subspicatus): > 10,000 mg/l 2 h est Guideline 201 on data from similar materials
Arvle	thylphenylpolyglykol e	the	r:	
-	ty to fish	:		io rerio (zebrafish)): 31.6 mg/l 6 h
(Benz	yloxy)methanol:			
-	ty to fish	:	EC50 : 81.5 mg/l Exposure time: 9	6 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 43 mg/l 8 h
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	smus subspicatus (green algae)): 17.7 mg/l 2 h
Toxici	ty to microorganisms	:	Exposure time: 3 Method: OECD T	sludge): > 10 - 100 mg/l h est Guideline 209 on data from similar materials
	ion mass of: 5-chloro-2-r azol-3-one [EC no. 220-2			-one [EC no. 247-500-7] and 2-methyl-2H-
	ty to fish		,	hus mykiss (rainbow trout)): 0.19 mg/l 6 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0.16 mg/l 8 h
Toxicit plants	ty to algae/aquatic	:	ErC50 (Skeletone Exposure time: 4	ema costatum (marine diatom)): 0.0052 mg/l 8 h
			NOEC (Skeletone Exposure time: 4	ema costatum (marine diatom)): 0.00049 mg/l 8 h
M-Fac icity)	ctor (Acute aquatic tox-	:	100	
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 3	es promelas (fathead minnow)): 0.02 mg/l 6 d



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	y to daphnia and other c invertebrates (Chron- city)	: NOEC (Daph Exposure tin	nnia magna (Water flea)): 0.10 mg/l ne: 21 d					
M-Fac toxicity	tor (Chronic aquatic y)	: 100						
Persis	tence and degradabil	ity						
<u>Comp</u>	onents:							
Glyce	rine:							
Biodeg	gradability	Biodegradation Exposure time						
(Benz	yloxy)methanol:							
Biodeg	gradability	Biodegradation Exposure time						
	Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H isothiazol-3-one [EC no. 220-239-6] (3:1):							
	gradability	: Result: Not r Biodegradation Exposure time						
Bioac	cumulative potential							
<u>Comp</u>	onents:							
Glyce	rine:							
	on coefficient: n- ol/water	: log Pow: -1.7	75					
Triflur	nuron:							
Bioaco	cumulation		oomis macrochirus (Bluegill sunfish) ation factor (BCF): 612					
	on coefficient: n- I/water	: log Pow: 4.6	8					
(Benz	yloxy)methanol:							
Partitio	on coefficient: n- ol/water	: log Pow: 0.3 Remarks: Ca						

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Starycide[®] Insect Growth Regulator

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isothia Partiti	ion mass of: 5-chloro-2 azol-3-one [EC no. 220 on coefficient: n- ol/water		n-3-one [EC no. 247-500-7] and 2-methyl-2H-
	ity in soil ta available		
	adverse effects ta available		
tion 13	3: Disposal considera	tions	
-	sal methods e from residues	directions. If i please follow guidelines.	e all of the product in accordance with label t is necessary to dispose of unused product, container label instructions and applicable loca e of waste into sewer.
	minated packaging	Empty contair Do not re-use	on product label and/or leaflet. ners retain residue and can be dangerous. empty containers.
	4: Transport informati national Regulations	on	
UNRT UN nu	DG	N.O.S. (Triflumuron, isothiazolin-3-	NTALLY HAZARDOUS SUBSTANCE, LIQUID Reaction mass of: 5-chloro-2-methyl-4- one [EC no. 247-500-7] and 2-methyl-2H- ne [EC no. 220-239-6] (3:1)
Labels	ng group s nmentally hazardous	: 9 : III : 9 : yes	
IATA- UN/ID Prope		(Triflumuron, isothiazolin-3-	ly hazardous substance, liquid, n.o.s. Reaction mass of: 5-chloro-2-methyl-4- one [EC no. 247-500-7] and 2-methyl-2H- ne [EC no. 220-239-6] (3:1)
Class Packi Labels	ng group	: 9 : III : Miscellaneous	



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	king instruction (cargo	: 964	
ger a	att) king instruction (passen- aircraft) ronmentally hazardous	: 964 : yes	
UN r	G-Code humber er shipping name	N.O.S. (Triflumuron, Re isothiazolin-3-on	ALLY HAZARDOUS SUBSTANCE, LIQUID, eaction mass of: 5-chloro-2-methyl-4- le [EC no. 247-500-7] and 2-methyl-2H- [EC no. 220-239-6] (3:1)
Labe EmS	king group	: 9 : III : 9 : F-A, S-F : yes	
	sport in bulk according	-	POL 73/78 and the IBC Code
Natio	onal Regulations		

NZS 5433		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triflumuron, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	3Z
Marine pollutant	:	no
• • • • •		

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR008007

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required.



Starycide® Insect Growth Regulator

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	Refer to the Health and Safet		y at	Work (Hazardous	Substances) Regulations 2017, for further in-	
	Product Type Active substance		:	Insecticides, acaricides and products to control other arthro-		
			pods : 48 g/l Triflumuron			
Sect	ion 16	Other information				
	Revisio	n Date	:	31.01.2024		
	Source	r information is of key data used to e the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/	
	Date fo	ormat	:	dd.mm.yyyy		
	Full te: ACGIH NZ OE		ons : :		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-	
		/TWA L / WES-TWA	:	8-hour, time-weig Workplace Expos	hted average sure Standard - Time Weighted average	
	AIIC - Australian Inventory of In Land of Brazil; ASTM - American Carcinogen, Mutagen or Reprod Standardisation; DSL - Domestic x% response; ELx - Loading rat ENCS - Existing and New Chem x% growth rate response; ERG - tem; GLP - Good Laboratory Prad - International Air Transport As Equipment of Ships carrying Dar centration; ICAO - International O cal Substances in China; IMDG Maritime Organization; ISHL - In ganisation for Standardization; K centration to 50 % of a test popu Lethal Dose); MARPOL - Intern n.o.s Not Otherwise Specified; Concentration; NO(A)EL - No Ot Loading Rate; NOM - Official Me Zealand Inventory of Chemicals; ment; OPPTS - Office of Chemical lative and Toxic substance; PICO			a Society for the T ductive Toxicant; Substances List (0 e associated with ical Substances (Emergency Respo- tice; IARC - Intern sociation; IBC - Intern sociation; IBC - International Ma dustrial Safety and ECI - Korea Exist lation; LD50 - Lett ational Convention Nch - Chilean Non served (Adverse) xican Norm; NTP OECD - Organiza al Safety and Pollu S - Philippines Inv	s; ANTT - National Agency for Transport by esting of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for Canada); ECx - Concentration associated with x% response; EmS - Emergency Schedule; Japan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- ational Agency for Research on Cancer; IATA nternational Code for the Construction and s in Bulk; IC50 - Half maximal inhibitory con- sization; IECSC - Inventory of Existing Chemi- ritime Dangerous Goods; IMO - International d Health Law (Japan); ISO - International Or- ing Chemicals Inventory; LC50 - Lethal Con- nal Dose to 50% of a test population (Median n for the Prevention of Pollution from Ships; m; NO(A)EC - No Observed (Adverse) Effect Effect Level; NOELR - No Observable Effect - National Toxicology Program; NZIoC - New tion for Economic Co-operation and Develop- tion Prevention; PBT - Persistent, Bioaccumu- rentory of Chemicals and Chemical Substanc- elationship; REACH - Regulation (EC) No	



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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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