PREVENTOL P 91



Version 2.0	Revision Date: 06/26/2023	SDS Number: 203000007707	Date of last issue: 03/01/2023 Country / Language: US / EN
SECTION	1. IDENTIFICATION		
Produ	uct name	: PREVENTOL F	° 91
Produ	uct code	: 00000000056	675969
EPA	registration number	: 39967-79	
Manu	afacturer or supplier's	details	
Com	bany	111 RIDC Parl	v & Regulatory Affairs
Resp	onsible Department	: (800) LANXES (412) 809-100 lanxesshes@la	0
Emer	gency telephone	(703) 527-388	800) 424-9300 or 7 (Outside U.S.A) and mention CCN12916. gency Phone (800) 410-3063.
Reco	mmended use of the	chemical and restric	tions on use
Reco	mmended use	: Biocide for indu	istrial application

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1

GHS label elements

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Hazaı	rd pictograms		!
Signa	ll Word	: Danger	
Hazaı	rd Statements	Causes skin irr	allergic skin reaction.
Preca	autionary Statements	Wash skin thor Do not eat, drir Use only outdo Contaminated workplace.	g mist or vapors. oughly after handling. Ik or smoke when using this product. ors or in a well-ventilated area. work clothing must not be allowed out of the e gloves/ eye protection/ face protection.
		unwell. Rinse n IF ON SKIN: W IF INHALED: R for breathing. C well. IF IN EYES: Ri Remove contac rinsing. Immed If skin irritation	ED: Call a POISON CENTER/ doctor if you feel nouth. 'ash with plenty of soap and water. emove person to fresh air and keep comfortabl Call a POISON CENTER/ doctor if you feel un- nse cautiously with water for several minutes. ct lenses, if present and easy to do. Continue iately call a POISON CENTER/ doctor. or rash occurs: Get medical advice/ attention. ninated clothing and wash before reuse.
		Disposal: Dispose of con plant.	tents/ container to an approved waste disposal
•	r hazards known.	Provid	

Substance / Mixture : Mixture

Components

Chemical name CAS-No.	Concentration (% w/w)
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>= 1 - < 5
2-1 30
>= 0.1 - < 1
>= 0.1 - < 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice :	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled :	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position com- fortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per- sonnel.
In case of skin contact :	Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
In case of eye contact :	In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Continue rinsing eyes during transport to hospital. Chemical burns must be treated promptly by a physician.
If swallowed :	Rinse mouth with water. Do not induce vomiting unless directed to do by medical per- sonnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

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Symp	otoms	headache, o Eye: Corros ing, burning Skin: Cause and swelling Once sensit	xposure to this product may cause dizziness, drowsiness, malaise, abdominal pain. ive with symptoms of reddening, tearing, swell- and possible permanent damage. is irritation with symptoms of reddening, itching, j. ized, a severe allergic reaction may occur when by exposed to very low levels.
Effec	ts	Causes skir May cause	vallowed or if inhaled. n irritation. an allergic skin reaction. ous eye damage.
Prote	ection of first-aiders	: No action sh suitable train	all be taken involving any personal risk or without ing.
Note	s to physician	: Treat sympto	omatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
		Toxic and irritating gases/fumes may be given off during burn- ing or thermal decomposition. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion prod- ucts	:	Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx) Halogenated compounds Metal oxides Sulfur oxides
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
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	ial protective equipment e-fighters	suitable train : Fire-fighters and self-con face-piece o	should wear appropriate protective equipment tained breathing apparatus (SCBA) with a full perated in positive pressure mode. ed breathing apparatus operated in the pressure

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate unnecessary personnel. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Do not breathe vapors, aerosols.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	 Stop leak if safe to do so. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or groundwater or into the soil. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Remove contaminated clothing and protective equipment fore entering eating areas. Workers should wash hands and face before eating, drink and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Avoid inhalation, ingestion and contact with skin and eyes Use only with adequate ventilation. 	king Is
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			should not be em is used.	story of skin sensitization to this product ployed in any process in which this product
Conditions for safe storage		:	Store in accordar Store in original c dry, cool and well materials (see Se Containers that h and kept upright t Do not store in ur	osed when not in use. nee with local regulations. container protected from direct sunlight in a -ventilated area, away from incompatible ection 10) and food and drink. ave been opened must be carefully resealed to prevent leakage. nlabeled containers. container to avoid environmental contamina-
	commended storage tem- rature	:	32 - 104 °F / 0 - 4	0 °C
	rther information on stor- e stability	:	Stable under reco	ommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Good general ventilation should be sufficient to control work- er exposure to airborne contaminants.
Personal protective equipme	ent	
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.
Hand protection Material Wearing time Material	:	Polychloroprene - CR < 60 min Polyvinyl chloride - PVC
Wearing time Remarks	:	< 60 min The suitability for a specific workplace should be discussed 6 / 32

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			tion with product	s of the protective gloves. After contamina- change the gloves immediately and dispose g to relevant national and local regulations	
Eye protection		:	 Tightly fitting safety goggles Faceshield may be necessary in operations with splash po- tential but cannot be used in place of chemical safety gog- gles. 		
Skin	and body protection	:	Impervious clothin	ng	
Hygiene measures		:	chemical products lavatory and at th Appropriate techn contaminated clot Wash contaminate	ed clothing before reusing. ash stations and safety showers are close	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	yellow
Odor	:	slight
Odor Threshold	:	No data available
рН	:	4 - 5
Pour point	:	30 °F / -1 °C
Boiling point/boiling range	:	212 °F / 100 °C (1,013 hPa)
Flash point	:	> 212 °F / > 100 °C
		Method: closed cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

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	Lower explosion limit / Lower flammability limit		No data available	9
Va	apor pressure	:	26 hPa (68 °F / 2	20 °C)
			130 hPa (122 °F	/ 50 °C)
			162 hPa (131 °F	/ 55 °C)
Re	elative density	:	No data available	9
De	ensity	:	1.1 g/cm3 (68 °F	/ 20 °C)
So	Solubility(ies) Water solubility		soluble	
	Solubility in other solvents	:	No data available	9
	Partition coefficient: n- octanol/water		No data available	9
lgı	nition temperature	:	> 932 °F / > 500	°C
De	ecomposition temperature	:	No data available	9
Vi	Viscosity Viscosity, dynamic		1.27 mPa.s	
	Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	: No data available	
O	Oxidizing properties		No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.



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Haza produ	rdous decomposition lcts	:	No hazardous	decomposition products are known.
SECTION	11. TOXICOLOGICAL	. INFO	ORMATION	
	mation on likely route	es of	exposure	
•				
	e toxicity ful if swallowed or if inf	naled		
Produ				
	oral toxicity	:	LD50 (Rat): 1,0	
Acute	inhalation toxicity	:	LC50 (Rat, male Exposure time: Test atmospher	
Acute	e dermal toxicity	:	LD50 (Rat): > 5	,000 mg/kg
<u>Com</u>	ponents:			
1,3-P	ropanediol, 2-bromo-	2-niti	·o-:	
Acute	oral toxicity	:	LD50 (Rat): 193	8 - 211 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat, male Exposure time: Test atmospher	
Acute	e dermal toxicity	:		e and female): > 2,000 mg/kg Test Guideline 402
magr	nesium nitrate:			
Acute	e oral toxicity	:	Method: OECD GLP: yes Assessment: Th icity	ale): > 2,000 mg/kg Test Guideline 423 ne substance or mixture has no acute oral tox- ge caused no mortality
Acute	e dermal toxicity	:	Method: OECD GLP: yes	e and female): > 5,000 mg/kg Test Guideline 402 results on an analogous product



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5 obl	ara 2 mathul 24 iaa	hiotol 2 onos			
	oro-2-methyl-2H-iso		malka		
Acule	Oral toxicity	: LD50 (Rat): 64	ilig/kg		
Acute inhalation toxicity		Exposure time: Test atmospher	LC50 (Rat): 0.33 mg/l Exposure time: 4 hrs Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.		
Acute	dermal toxicity	: LD50 (Rabbit):	87.12 mg/kg		
2-met	thyl-2H-isothiazol-3-	one:			
Acute	oral toxicity	: LD50 (Rat, fem Method: OPPT: GLP: yes			
Acute	inhalation toxicity	Exposure time: Test atmospher			
Acute	dermal toxicity		e and female): 242 mg/kg Test Guideline 402		
Skin	corrosion/irritation				
Cause	es skin irritation.				
Produ	uct:				
Speci Metho Resul	bd	: Rabbit : OECD Test Gu : Irritating to skin			
<u>Comp</u>	oonents:				
1,3-P	ropanediol, 2-bromo	-2-nitro-:			
Speci Metho Resul GLP	bd	: Rabbit : OECD Test Gu : Irritating to skin : yes			
magn	esium nitrate:				
Speci		: Rabbit			
	sure time		: 4 h		
Metho		: OECD Test Guideline 404			
Resul GLP	Result : No skin irritation				
GLP		: no			



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Rema	arks	: Test results	on an analogous product					
			<u> </u>					
5-chl	oro-2-methyl-2H-iso							
Resu	lt		sures between 1 hour and 4 hours and observations up to 14					
Rema	arks	: Brief contact	may cause skin burns. Symptoms may include local redness and tissue damage.					
2-me	thyl-2H-isothiazol-3-	one:						
Speci		: Rabbit						
Metho			Guideline 404					
Resu GLP	It		ter 3 minutes to 1 hour of exposure					
GLF		: yes						
Serio	ous eye damage/eye	irritation						
Caus	es serious eye dama	ge.						
Prod	uct:							
Speci	ies	: Rabbit						
Resu			us damage to eyes.					
Metho	od	: OECD Test	Guideline 405					
Com	ponents:							
1,3-P	ropanediol, 2-bromo	o-2-nitro-:						
Speci		: Rabbit						
Resu	lt	: Risk of serio	us damage to eyes.					
magr	nesium nitrate:							
Speci	ies	: Rabbit						
Resu	lt	: No eye irritat						
Metho	od		Guideline 405					
GLP		: yes						
5-chl	oro-2-methyl-2H-iso	thiazol-3-one:						
Speci	ies	: Rabbit						
Resu			us damage to eyes.					
Metho	od	: OECD Test	Guideline 405					
2-me	thyl-2H-isothiazol-3-	one:						
Rema	-		us damage to eyes.					

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Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	May cause sensitization by skin contact.
Remarks	:	Test results on an analogous product

Components:

1,3-Propanediol, 2-bromo-2-nitro-:

	Skin contact Guinea pig
Method :	OECD Test Guideline 406 Does not cause skin sensitization.

magnesium nitrate:

Test Type	: Local lymph node assay (LLNA)
Routes of exposure	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Did not cause sensitization on laboratory animals.
GLP	: yes

5-chloro-2-methyl-2H-isothiazol-3-one:

Assessment	:	The product is a skin sensitizer, sub-category 1A.
Remarks	:	Causes sensitization on guinea-pigs.
		Has demonstrated the potential for contact allergy in mice.

2-methyl-2H-isothiazol-3-one:

Test Type Routes of exposure Species Method Result GLP		Buehler Test Skin contact Guinea pig OECD Test Guideline 406 The product is a skin sensitizer, sub-category 1A. yes
Test Type Routes of exposure Species Method	:	Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429



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Rou Spe	t Type ttes of exposure ccies hod sult	 The product is a skin sensitizer, sub-category 1A. yes Maximization Test Skin contact Guinea pig OECD Test Guideline 406 The product is a skin sensitizer, sub-category 1A. yes 	
Not	m cell mutagenicity classified based on a nponents:	ailable information.	
	Propanediol, 2-brom	-2-nitro-	
	notoxicity in vitro	: Test system: Mammalian-Human Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive GLP: yes	on
		Test system: Mammalian-Animal Metabolic activation: with and without metabolic activation Result: negative GLP: yes	on
Ger	notoxicity in vivo	 Species: Mammalian-Animal Application Route: Oral Exposure time: 72 h Dose: 160 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: yes 	
		Species: Mammalian-Animal Application Route: Oral Exposure time: 4 d Method: OECD Test Guideline 486 Result: negative GLP: yes	
ma	gnesium nitrate:		
	notoxicity in vitro	: Test Type: gene mutation test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activatio Method: OECD Test Guideline 471 Result: negative	on
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		GLP: yes	
		Test Type: Chi Test system: H Metabolic activ Method: OECE Result: negativ GLP: yes	romosome aberration test in vitro luman lymphocytes vation: with and without metabolic activation D Test Guideline 473 ve
		Test system: n Metabolic activ Method: OECE Result: negativ GLP: yes	vitro mammalian cell gene mutation test house lymphoma cells vation: with and without metabolic activation D Test Guideline 476 ve
E ab		histol 2 succ	
	loro-2-methyl-2H-isot otoxicity in vitro	: Test system: E Metabolic activ	vation: with and without metabolic activation D Test Guideline 471
Geno	otoxicity in vivo	: Test Type: Mic Species: Mous Application Ro Result: negativ	e ute: Oral
	n cell mutagenicity - ssment	: Animal testing	did not show any mutagenic effects.
2-me	ethyl-2H-isothiazol-3-	one:	
Geno	otoxicity in vitro	Metabolic activ	almonella typhimurium ration: with and without metabolic activation) Test Guideline 471
		Test system: H Metabolic activ	romosome aberration test in vitro Iuman lymphocytes ration: with and without metabolic activation O Test Guideline 473 re
		Test Type: In v	ritro mammalian cell gene mutation test

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		Metabolic acti	Chinese hamster ovary cells vation: with and without metabolic activation D Test Guideline 476 ve	
Genotoxicity in vivo :		Species: Rat (Cell type: Live Application Ro	er cells oute: Oral D Test Guideline 486	
		Species: Mou Cell type: Bon Application Ro	oute: Oral D Test Guideline 474	
	nogenicity lassified based on ava	ilable information.		
Com	oonents:			
1,3-P	ropanediol, 2-bromo-	2-nitro-:		
	cation Route sure time	: Rat, male and : Oral : 104 weeks : 7 mg/kg body : negative		
5 chl	oro 2 mothul 24 isot	hiazol 3 ono:		
	oro-2-methyl-2H-isot nogenicity - Assess-		e as a human carcinogen.	
2-me	thyl-2H-isothiazol-3-o	<u>no.</u>		
Speci	es	: Mouse, male		
	cation Route	: Dermal		
Expos Dose	sure time	: 30 month(s) : 400 parts per	million	
	ency of Treatment	: 3 days/week		
Metho		: No information available.		

- Method : No information available.
 - : negative

Result

Remarks

GLP

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Species Application Ro Exposure time Dose Method Result GLP Remarks	: Rat, male and female : Oral : 24 month(s) : 30 - 100 - 300 parts per million : OECD Test Guideline 453 : negative : yes : Test results on an analogous product
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-bromo-2-nitro-:

Effects on fertility	:	Species: Rat, male and female Application Route: Oral Duration of Single Treatment: 19 Weeks General Toxicity Parent: NOAEL: > 40 mg/kg body weight General Toxicity F1: NOAEL: > 40 mg/kg body weight Method: OECD Test Guideline 415
magnesium nitrate:		
Effects on fertility	:	Test Type: reproductive and developmental toxicity study Species: Rat, male and female Application Route: Oral Dose: 250 - 750 - 1500 mg/kg Duration of Single Treatment: 28 d General Toxicity Parent: NOAEL: >= 1,500 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes Remarks: Test results on an analogous product
Effects on fetal development	:	Species: Rat, male and female Application Route: Oral Dose: 250 - 750 - 1500 mg/kg Duration of Single Treatment: 53 d General Toxicity Maternal: NOAEL: >= 1,500 mg/kg body



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			Method: OECD T GLP: yes	oxicity: NOAEL: >= 1,500 mg/kg body weight est Guideline 422 sults on an analogous product
5-0	chloro-2-methyl-2H-isoth	niazo	I-3-one:	
	ects on fertility	:	Species: Rat, ma Application Route Dose: 72 milligrar Method: OECD T GLP: yes	e: Oral
Eff	ects on fetal development	t :	Species: Rat, fem Application Route Dose: > 139 millio Duration of Single Frequency of Tre Result: No terato	e: Oral gram per kilogram e Treatment: 20 d atment: 9 daily
	productive toxicity - As- ssment	:	No toxicity to repr	roduction
2-ı	nethyl-2H-isothiazol-3-o	ne:		
Eff	ects on fertility	:	General Toxicity Fertility: NOAEL: Early Embryonic Method: OECD T	le and female e: Oral 0 - 1000 parts per million Parent: NOAEL: 200 ppm
Efi	ects on fetal development	t :	Species: Rat, ferr Application Route Dose: 0 - 5 - 20 - General Toxicity I Teratogenicity: N Developmental T Embryo-fetal toxic	

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Test Type: Embryo-fetal development Species: Rabbit, female Application Route: Oral Dose: 0 - 3 - 10 - 30 milligram per kilogram General Toxicity Maternal: NOAEL: 10 mg/kg bw/day Teratogenicity: NOAEL: 30 mg/kg bw/day Developmental Toxicity: NOAEL: 30 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 30 mg/kg body weight Method: OECD Test Guideline 414 Result: negative GLP: yes

STOT-single exposure

Not classified based on available information.

Components:

1,3-Propanediol, 2-bromo-2-nitro-:

Routes of exposure	:	Inhalation
Assessment	:	May cause respiratory irritation.

5-chloro-2-methyl-2H-isothiazol-3-one:

Assessment

: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

STOT-repeated exposure

Not classified based on available information.

Components:

5-chloro-2-methyl-2H-isothiazol-3-one:

Assessment	:	The substance or mixture is not classified as specific target
		organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

magnesium nitrate:

Species	:	Rat, male and female
NOAEL	:	>= 1,500 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Number of exposures	:	daily
Dose	:	250 - 750 - 1500 mg/kg
Method	:	OECD Test Guideline 422
GLP	:	yes
Remarks	:	Subacute toxicity

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		Test results	on an analogous product
5-chl	oro-2-methyl-2H-iso	thiazol-3-one:	
	EL cation Route sure time	: Rat, male ar : > 18.75 mg/ : Dermal : 90 d : > 18,75 mg/ : Chronic toxi	kg kg
2-me	thyl-2H-isothiazol-3-	one:	
Spec NOA LOAE Appli Expo Numl Dose Meth GLP Rema Spec NOA LOAE Appli Expo	ies EL EL cation Route sure time ber of exposures od arks ies EL EL cation Route sure time ber of exposures od	 Rat, male ar 225 ppm 1000 ppm Oral 90 d Continuous 0 - 75 - 225 OECD Test yes Subchronic Rat, male ar 28.59 mg/kg Oral 28 d daily 10,03 - 28,5 	- 1000 parts per million Guideline 408 toxicity nd female 9 9 - 71,21 mg/kg bw/day Guideline 407
Spec NOA Appli Expo	ies EL cation Route sure time ber of exposures od	: Dog, male a : 1500 ppm : Oral : 90 d : daily : 0 - 100 - 400	nd female 0 - 1500 parts per million Guideline 409

Aspiration toxicity

Not classified based on available information.

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Com	ponents:			
5-ch	loro-2-methyl-2H-isothi	azo	I-3-one:	
No a	spiration toxicity classification	atio	n	
Furtl	her information			
Prod	luct:			
Rem	arks	:	No data available	
SECTION	I 12. ECOLOGICAL INFO	ORM	ATION	
Ecot	oxicity			
Prod	luct:			
Τοχία	city to fish	:	100 mg/l Exposure time: 9	n variegatus (sheepshead minnow)): > 10 - 6 h sults on an analogous product
Tavi	aity to dophaic and other			
	city to daphnia and other atic invertebrates	:	Exposure time: 4	
			Remarks: Test re	sults on an analogous product
	city to algae/aquatic	:	ErC50 (algae): 2.	
plant	S		Exposure time: 72 Remarks: Test re	2 h sults on an analogous product
<u>Com</u>	ponents:			
1,3-F	Propanediol, 2-bromo-2-	-nit	ro-:	
Τοχία	city to fish	:	Exposure time: 9	nacrochirus (Bluegill sunfish)): 11 mg/l 6 h P 72-1 (Fish Acute Toxicity Test)

GLP: yes

GLP: yes

mg/l

Remarks: Fresh water

Exposure time: 48 h

Remarks: Fresh water

Exposure time: 72 h

EC50 (Daphnia magna (Water flea)): 1.08 mg/l

: ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0.25

Method: OECD Test Guideline 202

Method: OECD Test Guideline 201

plants

Toxicity to daphnia and other :

aquatic invertebrates

Toxicity to algae/aquatic



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			GLP: yes Remarks: Fresh v	vater
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T GLP: yes Remarks: Fresh v	est Guideline 201
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 27 Method: OECD T GLP: yes Remarks: Fresh v	est Guideline 211
magn	esium nitrate:			
Toxici	ty to fish	:	End point: mortali Exposure time: 96 Test Type: static Analytical monitor Method: OECD T GLP: yes	5 [°] h test ring: yes
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Analytical monitor GLP: no	
Toxici plants	ty to algae/aquatic	:	End point: Growth Exposure time: 10 Test Type: static t Analytical monitor GLP: no	n rate) Days test
Toxici	ty to microorganisms	:	Exposure time: 3 Test Type: Respin Analytical monitor Method: OECD T GLP: yes	ration inhibition ring: no



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	5 -chlor Foxicity	o-2-methyl-2H-isothi a to fish	azol :		rough test
		to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48 Test Type: flow-th Method: OECD Te	rough test
	Foxicity plants	to algae/aquatic	:	NOEC (Selenastrumg/I End point: Growth	um capricornutum (green algae)): 0.0099 rate
				EC50 (Selenastru End point: Growth Exposure time: 72	
	Foxicity city)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 14 Test Type: flow-th	
				NOEC (Pimephale Exposure time: 36 Test Type: flow-th	
а		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n End point: numbe Exposure time: 21	
				Lowest Observed ter flea)): 0.57200 End point: numbe Exposure time: 21	r of offspring
				NOEC (Daphnia n Exposure time: 21 Test Type: flow-th	
Т	Foxicity	to microorganisms	:	EC50 (Bacteria): Exposure time: 16	
2	2-meth	yl-2H-isothiazol-3-on	e:		
		to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: flow-th Analytical monitor	rough test



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		Method: OECD GLP: yes Remarks: Fresl	Test Guideline 203 n water
	ity to daphnia and other ic invertebrates	End point: Imm Exposure time: Test Type: flow Analytical moni	48 h -through test toring: yes Test Guideline 202
		Exposure time: Test Type: flow Analytical moni	-through test toring: yes PA OPPTS 850.1035
Toxici plants	ity to algae/aquatic	0.158 mg/l End point: Grov Exposure time: Test Type: stat Analytical moni	72 h ic test toring: yes Test Guideline 201
		0.05 mg/l End point: Grov Exposure time: Test Type: stat Analytical moni	72 h ic test toring: yes Test Guideline 201
		mg/l End point: Grov Exposure time: Test Type: stat Analytical moni	96 h ic test toring: yes Test Guideline 201



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		End point: Gro Exposure time Test Type: sta Analytical mo	e: 96 h atic test nitoring: yes D Test Guideline 201
Toxici icity)	ity to fish (Chronic tox-	End point: mo Exposure time Test Type: flo Analytical mo	e: 98 d w-through test nitoring: yes D Test Guideline 210
	ity to daphnia and other ic invertebrates (Chron- city)	Exposure time Test Type: flo Analytical mo	w-through test nitoring: yes D Test Guideline 211
Toxici	ity to microorganisms	End point: Re Exposure time Test Type: sta Analytical mo	atic test
Persi	stence and degradabil	ty	
Comp	oonents:		
	ropanediol, 2-bromo-2- gradability		and an stringant OECD tast guidelines, this ma
Diode	gradability	terial cannot to these results	sed on stringent OECD test guidelines, this ma- beconsidered as readily biodegradable; howeve do not necessarily mean that the material is no e under environmental conditions.
		Biodegradatic Exposure time Method: Simu Remarks: Col	e: 1 h
		24	/ 32



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		E E N	Biodegradation Exposure time:	
magr	nesium nitrate:			
Biode	egradability			thods for determining the biological degradabil- icable to inorganic substances.
5-chl	oro-2-methyl-2H-iso	thiazol-3	-one:	
Biode	egradability			rial is readily biodegradable. Passes OECD y biodegradability.
		C F E N	Biodegradation Exposure time: Aethod: OECD	biodegradable. : 98 %
Photo	odegradation	:		
	thyl-2H-isothiazol-3- egradability	: E E N	Biodegradation Exposure time: Aethod: Simula Remarks: Cons	48 d
		E E N	Biodegradation Exposure time:	
		E E N	Biodegradation Exposure time:	



ersion .0	Revision Date: 06/26/2023	SDS Number: 203000007707	Date of last issue: 03/01/2023 Country / Language: US / EN			
Bio	accumulative potentia	l				
<u>Cor</u>	nponents:					
1,3-	Propanediol, 2-bromo	2-nitro-:				
Bioa	accumulation	: Bioconcentra	ation factor (BCF): 3.16			
	tition coefficient: n- anol/water	: log Pow: -0.4 Method: Calo				
5-chloro-2-methyl-2H-isothiazol-3-one:						
Bioa	accumulation	: Remarks: Bio	paccumulation is unlikely.			
	tition coefficient: n- anol/water	: log Pow: 0.4 Method: mea Remarks: 5-0				
2-m	ethyl-2H-isothiazol-3-o	one:				
	tition coefficient: n- anol/water	pH: 7	ł86 (77 °F / 25 °C) CD Test Guideline 107			
Mol	oility in soil					
<u>Cor</u>	nponents:					
1,3-	Propanediol, 2-bromo	2-nitro-:				
	ribution among environ- ntal compartments	: Koc: 5				
5-cł	nloro-2-methyl-2H-isot	hiazol-3-one:				
	ribution among environ- ntal compartments	tween 0 and Given its ver	otential for mobility in soil is very high (Koc be- 50). y low Henry's constant, volatilization from natu ter or moist soil is not expected to be an im-			
Oth	er adverse effects					
<u>Cor</u>	nponents:					
5-cł	nloro-2-methyl-2H-isot	hiazol-3-one:				
Res	sults of PBT and vPvB	: This substan	ce is not considered to be persistent, bioaccu xic (PBT). This substance is not considered to			
			5/32			

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	Additio	nal ecological infor-			id very bioaccumulating (vPvB). atic organisms, may cause long-term adverse
	mation	-	•	effects in the aqu	
SEC	TION 1	3. DISPOSAL CONSI	DEF	RATIONS	
l t	RCRA	sal methods - Resource Conserva- d Recovery Authoriza- t	:	hazardous waste er, under RCRA, determine at the t ing the product or	purchased form, this product would not be a either by listing or by characteristic. Howev- it is the responsibility of the product user to ime of disposal, whether a material contain- derived from the product should be classi- us waste. (40 CFR 261.20-24)
Ň	Waste	from residues	:	wherever possible This material and way. Empty containers tions for product. Waste disposal sl state, provincial a Avoid dispersal o	waste should be avoided or minimized e. its container must be disposed of in a safe retain product residue; observe all precau- nould be in accordance with existing federal, nd/or local environmental controls. f spilled material and runoff and contact with lrains and sewers.

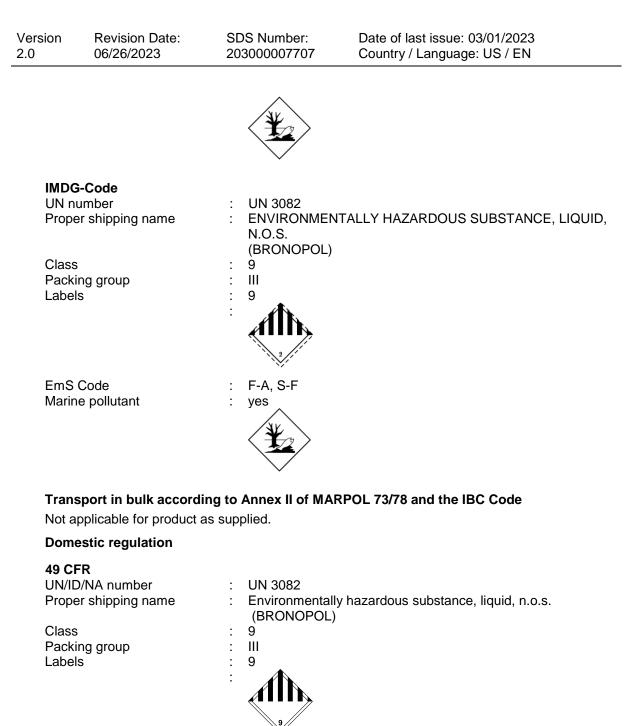
SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (BRONOPOL)
Class	:	9
Packing group	:	III
Labels	:	9
	:	
Packing instruction (cargo aircraft)	:	964 : 450.00 L
Packing instruction (passen- ger aircraft)	:	964 : 450.00 L
Environmentally hazardous	:	yes

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ERG Code

Marine pollutant

: 171

:

yes

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Hazard and Handling Notes.

Environmentally hazardous substance. Irritating to skin. Risk of serious damage to eyes Keep separated from foodstuffs The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Respiratory or skin sensitization Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know		
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7	>= 5 - < 10
magnesium nitrate	10377-60-3	>= 1 - < 5
Pennsylvania Right To Know		
water	7732-18-5	> 1
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7	>= 5 - < 10
magnesium nitrate	10377-60-3	>= 1 - < 5

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA inventory

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TSCA	A		is regulated under the United States Federal Sungicide and Rodenticide Act (FIFRA).
TSCA	A list		
No su	ibstances are subject t	o a Significant New	Use Rule.
No su	ibstances are subject t	o TSCA 12(b) expo	rt notification requirements.
FIFR	A information		
EPA	registration number	: 39967-79	
subje from t workp	This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:		
Signa	ll Word	: DANGER	

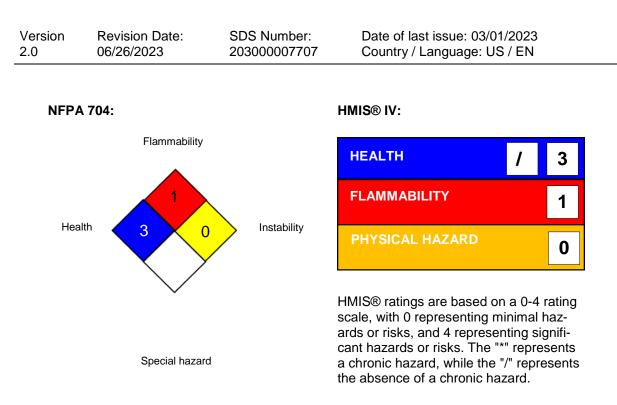
Hazard Statements	:	Corrosive Causes irreversible eye damage. Harmful if swal-
		lowed or if inhaled. Prolonged or frequently repeated skin
		contact may cause allergic reactions in some individuals.

SECTION 16. OTHER INFORMATION

Further information

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Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments



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and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.