Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Switzerland



SAFETY DATA SHEET

VIRUSNIP

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

1.1 Product identifier	
Product name	: VIRUSNIP
Product code	: 12400000679
Product description	: Not available.
Other means of identification	: A-20119 A; AH2235; VIRUCIDAL EXTRA
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	: Biocidal product
Uses advised against	: None known.
1.3 Details of the supplier o	f the safety data sheet
Elanco Tiergesundheit AG Mattenstrasse 24A 4058 Basel, Switzerland	
Telephone number	: 0800 77 4444
e-mail address of person responsible for this SDS	: elanco_sds@elancoah.com
1.4 Emergency telephone n	umber
Supplier or Manufacturer	
Supplier Emergency telephone number	: CHEMTREC International: 00 1 703-527-3887 (24 hours)
Transportation Emergency telephone number	: CHEMTREC International: 00 1 703-527-3887 (24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. : 45 percent of the mixture consists of component(s) of unknown acute dermal toxicity Ingredients of unknown toxicity Ingredients of unknown : Contains 25% of components with unknown hazards to the aquatic environment ecotoxicity See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H302 - Harmful if swallowed.H314 - Causes severe skin burns and eye damage.H411 - Toxic to aquatic life with long lasting effects.		
Precautionary statements				
Prevention	:	 P280 - Wear protective gloves, protective clothing ar P273 - Avoid release to the environment. P270 - Do not eat, drink or smoke when using this pr P264 - Wash thoroughly after handling. 		face protection.
Response	:	 P391 - Collect spillage. P304 + P310 - IF INHALED: Immediately call a POIS P301 + P310, P330, P331 - IF SWALLOWED: Immediately coll a POIS CENTER or doctor. Rinse mouth. Do NOT induce v P303 + P361 + P353, P310 - IF ON SKIN (or hair): T contaminated clothing. Rinse skin with water. Immediately coll a POISON CENTER or doctor. P305 + P351 + P338, P310 - IF IN EYES: Rinse cau minutes. Remove contact lenses, if present and easy Immediately call a POISON CENTER or doctor. 	ediately ca omiting. Take off in diately cal tiously wit	all a POISON nmediately all Il a POISON CENTER h water for several
Storage		Not applicable.		
Disposal	1	P501 - Dispose of contents and container in accordanational and international regulations.	ince with a	all local, regional,
Hazardous ingredients	1	pentapotassium bis(peroxymonosulphate) bis(sulpha Benzenesulfonic acid, C10-13-alkyl derivs., sodium s		
Supplemental label elements	:	Contains trisodium 7-[[4-chloro-6-[(3-sulphonatopher amino]-4-hydroxy-3-[(4-methoxy-2-sulphonatopheny May produce an allergic reaction.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.		
Special packaging requirem	ien	<u>ts</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.		
Tactile warning of danger		Not applicable.		
Biocidal products regulation				
Active substances				
Ingredient name				%
pentapotassium bis(peroxyr troclosene sodium	noi	nosulphate) bis(sulphate)	-	50 5
2.3 Other hazards				
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that a vPvB.	re assess	ed to be a PBT or a
Other hazards which do not result in classification	:	May form combustible dust concentrations in air.		

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
pentapotassium bis (peroxymonosulphate) bis (sulphate)	EC: 274-778-7 CAS: 70693-62-8	≥50 - ≤75	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
sulphamidic acid	EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-	[1]
troclosene sodium	EC: 220-767-7 CAS: 2893-78-9 Index: 613-030-00-X	<10	Ox. Sol. 2, H272 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH031	ATE [Oral] = 1420 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l STOT SE 3, H335: $C \ge 10\%$ M [Acute] = 1 M [Chronic] = 1 EUH031: $C \ge 10\%$	[1]
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	EC: 270-115-0 CAS: 68411-30-3	≤10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 404 mg/kg	[1]
trisodium 7-[[4-chloro-6-[(3-sulphonatophenyl)amino] -1,3,5-triazin-2-yl]amino] -4-hydroxy-3-[(4-methoxy- 2-sulphonatophenyl)azo] naphthalene-2-sulphonate	EC: 264-721-4 CAS: 64181-81-3	<1	Skin Sens. 1, H317	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Type

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description	n of first aid measures		
Eye contact	flush eyes with Check for and	ention immediately. Call a poison center or physicial plenty of water, occasionally lifting the upper and low remove any contact lenses. Continue to rinse for at s must be treated promptly by a physician.	wer eyelids.
Inhalation	victim to fresh suspected that or self-containe respiratory arre It may be dang resuscitation.	tention immediately. Call a poison center or physicia air and keep at rest in a position comfortable for brea- fumes are still present, the rescuer should wear an ed breathing apparatus. If not breathing, if breathing est occurs, provide artificial respiration or oxygen by erous to the person providing aid to give mouth-to-m f unconscious, place in recovery position and get mo Maintain an open airway. Loosen tight clothing such	athing. If it is appropriate mask is irregular or if trained personnel. touth edical attention
Product name :	VIRUSNIP		CH : ENGLISH
Version :0.04	Date of revision :16 November 2022	Date of previous issue :1 August 2022	3/16

SECTION 4: First aid measures

	belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

5.2 Special hazards arising from the substance or mixture

Hazards from the	: May form explosible dust-air mixture if dispersed. This material is toxic to aquatic
substance or mixture	life with long lasting effects. Fire water contaminated with this material must be
	contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 5: Firefighting measures

: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

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6.1 Personal precautions, pro	ective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce

	dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill :	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other	1	See Section 1 for emergency contact information.
sections		See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

SECTION 7: Handling and storage

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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the environment. Avoid the creation of dust when handling and avoid a sources of ignition (spark or flame). Prevent dust accumulation. Use of adequate ventilation. Wear appropriate respirator when ventilation is in Keep in the original container or an approved alternative made from a of material, kept tightly closed when not in use. Electrical equipment and should be protected to appropriate standards to prevent dust coming in with hot surfaces, sparks or other ignition sources. Take precautionary against electrostatic discharges. To avoid fire or explosion, dissipate s electricity during transfer by earthing and bonding containers and equip transferring material. Empty containers retain product residue and can hazardous. Do not reuse container.	release to all possible only with nadequate. compatible lighting ito contact / measures tatic oment before
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this handled, stored and processed. Workers should wash hands and face eating, drinking and smoking. Remove contaminated clothing and prot equipment before entering eating areas. See also Section 8 for addition information on hygiene measures.	e before ective

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

<u>Dange</u>	<u>r criteria</u>		
Categ		Notification and MAPP threshold	Safety report threshold
E2		200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
No exposure limit value known.	

Biological exposure indices

None known.

Recommended monitoring : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

SECTION 8: Exposure controls/personal protection

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
pentapotassium bis	DNEL	Long term	0.14 mg/m ³	General	Local
(peroxymonosulphate) bis(sulphate)		Inhalation		population	
	DNEL	Long term	0.14 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term Dermal	0.22 mg/	General	Local
		1	Cm ²	population	1 1
	DNEL	Long term	0.28 mg/m ³	Workers	Local
	DNEL	Inhalation	$0.20 m a/m^{3}$	Markora	Svotomio
	DINEL	Long term Inhalation	0.28 mg/m ³	vvorkers	Systemic
	DNEL	Short term Dermal	0.449 mg/	Workers	Local
	DINEL		0.449 mg/ cm ²	WUIKEIS	LUCAI
	DNEL	Short term Oral	10 mg/kg	General	Systemic
	DINCE	onort term ora	bw/day	population	Oysternie
	DNEL	Long term Oral	10 mg/kg	General	Systemic
			bw/day	population	5,000
	DNEL	Long term Dermal	10 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	20 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Short term	25 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	25 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term Dermal	40 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	50 mg/m³	Workers	Local
		Inhalation	50 ()	NA7 1	
	DNEL	Short term	50 mg/m³	Workers	Systemic
		Inhalation	00 //		0
	DNEL	Short term Dermal	80 mg/kg	Workers	Systemic
			bw/day	0	O un transia
sulphamidic acid	DNEL	Long term Oral	5 mg/kg	General	Systemic
	DNEL	Long torm Dormal	bw/day	population General	Systemic
	DINEL	Long term Dermal	5 mg/kg bw/day	population	Systemic
	DNEL	Long term Dermal	10 mg/kg	Workers	Systemic
			bw/day	VV UNCIS	Systemic
	DNEL	Long term	17.4 mg/m ³	General	Systemic
		Inhalation		population	2,000
	DNEL	Long term	70.5 mg/m ³		Systemic
		Inhalation			,
troclosene sodium	DNEL	Long term Oral	1.15 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term Dermal	1.15 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	1.99 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	2.3 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	8.11 mg/m ³	Workers	Systemic
		Inhalation	0.405	Osmanil	Our the second
Benzenesulfonic acid, C10-13-alkyl	DNEL	Long term Oral	0.425 mg/	General	Systemic
derivs., sodium salts			kg bw/day	population	Ou esta una la
	DNEL	Long term	1.3 mg/m ³	General	Systemic
		Inhalation	76 ma/m3	population Workers	Svetomia
	DNEL	Long term	7.6 mg/m ³	Workers	Systemic
	DNEL	Inhalation	125 mal	General	Svetomia
		Long term Dermal	42.5 mg/ kg bw/day	population	Systemic
	DNEL	Long term Dermal	119 mg/kg	Workers	Systemic
			bw/day	VVUINCIS	Systemic
	1		bw/uay		

PNECs

SECTION 8: Exposure controls/personal protection

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Powder.]
Colour	: Pink
Odour	: Lemon-like.
Odour threshold	: Not available.
Melting point/freezing point	: 63°C
Initial boiling point and boiling range	: 216°C (420.8°F)
Flammability	: Not available.

SECTION 9: Physical and chemical properties

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Lower and upper explosion limit	:	Not applicable.
Flash point	:	Closed cup: 150°C (302°F)
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
рН	:	2.1 [Conc. (% w/w): 1%]
Viscosity	:	Not applicable.
Solubility(ies)	1	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	1	Not applicable.
Vapour pressure	÷	0.00000001 kPa (0.000000075 mm Hg)
Evaporation rate	1	Not available.
Relative density	:	1.853
Density	:	1.85 g/cm³
Vapour density	:	Not applicable.
Explosive properties	1	Not available.
Oxidising properties	1	No oxidising ingredients present.
Particle characteristics		
Median particle size	:	Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
pentapotassium bis (peroxymonosulphate) bis (sulphate)	LC50 Inhalation Dusts and mists	Rat	>5000 mg/m³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
sulphamidic acid	LD50 Oral	Rat	3160 mg/kg	-
troclosene sodium	LC50 Inhalation Dusts and mists	Rat	0.27 to 1.17 mg/l	4 hours
	LD50 Oral	Rat	1420 mg/kg	-

SECTION 11: Toxicological information				
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	404 mg/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
VIRUSNIP pentapotassium bis(peroxymonosulphate) bis (sulphate)	867.6 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
sulphamidic acid troclosene sodium	3160 1420	N/A N/A	N/A N/A	N/A N/A	N/A 1.5
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	404	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sulphamidic acid	Eyes - Moderate irritant	Rabbit	-	20 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Skin - Mild irritant	Human	-	120 hours 4	-
				% I	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
	Europ Milel invite set	Dabbit		mg	
troclosene sodium	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit		mg 24 hours 10	_
		Rabbit	-	mg	-
	Eyes - Severe irritant	Rabbit	-	0.1 g	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Severe irritant	Rabbit	-	500 mg	-
Benzenesulfonic acid,	Skin - Moderate irritant	Rabbit	-	0.5 MI	-
C10-13-alkyl derivs., sodium					
salts					
Conclusion/Summary	: Not available.		-		
Sensitisation					
	- NI-4 11-1-1-				

Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxi	icity (single exposure

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
troclosene sodium	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

SECTION 11: Toxicological information

Not available.

Information on likely routes of exposure	Not available.
Potential acute health effect	
Eye contact	Causes serious eye damage.
Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	Causes severe burns.
Ingestion	Harmful if swallowed.
Symptoms related to the phy Eye contact	cal, chemical and toxicological characteristics Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Adverse symptoms may include the following: stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
pentapotassium bis (peroxymonosulphate) bis (sulphate)	Chronic NOAEL Oral	Rat	1000 mg/kg	14 days
Conclusion/Summary	: Not available.	·		
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects or critical hazards.			

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
pentapotassium bis (peroxymonosulphate) bis (sulphate)	Acute EC50 >1 mg/l	Algae	72 hours
	Acute EC50 3.5 mg/l	Daphnia	48 hours
	Acute LC50 1.09 mg/l	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 0.5 mg/l Fresh water	Algae	72 hours
	Chronic NOEC 0.222 mg/l	Fish - Cyprinodon veriegatus	-
sulphamidic acid	Acute LC50 14200 µg/l Fresh water	Fish - Pimephales promelas	96 hours
troclosene sodium	Acute EC50 6.24 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	3 days
	Acute EC50 0.11 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.217 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Acute EC50 2.9 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.67 mg/l	Fish	96 hours
	Chronic EC50 29 mg/l	Algae - Pseudokirchnerella subcapitata	96 hours
	Chronic NOEC 0.5 mg/l	Algae - Pseudokirchnerella subcapitata	96 hours
	Chronic NOEC 0.5 mg/l	Crustaceans - Ceriodaphnia dubia	7 days
	Chronic NOEC 0.63 mg/l	Fish - Pimephales promelas	196 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
pentapotassium bis (peroxymonosulphate) bis (sulphate) sulphamidic acid Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	<0.3 0.101 3.32	-	low low low	

12.4 Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

Mobility

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3260	UN3260	UN3260	UN3260
14.2 UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S (pentapotassium bis (peroxymonosulphate) bis(sulphate))			
14.3 Transport hazard class(es)				8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$. **ADN** : The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$. IMDG The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. ŝ, The environmentally hazardous substance mark may appear if required by other ΙΑΤΑ 5 transportation regulations. 14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in user the event of an accident or spillage.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

SECTION 15. Regulatory information		
15.1 Safety, health and environmental regulations/legislation specific for th	e substance or m	nixture
EU Regulation (EC) No. 1907/2006 (REACH)		
Annex XIV - List of substances subject to authorisation		
Annex XIV		
None of the components are listed.		
Substances of very high concern		
None of the components are listed.		
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		
Other EU regulations		
Industrial emissions : Listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Ozone depleting substances (1005/2009/EU)		
Not listed.		
Prior Informed Consent (PIC) (649/2012/EU)		
Not listed.		
Persistent Organic Pollutants Not listed.		
Seveso Directive		
This product is controlled under the Seveso Directive. Danger criteria		
Category		
E2		
Biocidal products regulation		
Active substances		
Ingredient name		%
pentapotassium bis(peroxymonosulphate) bis(sulphate)		50
troclosene sodium		5
National regulationsVOC content: Exempt.		

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still required. assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.
Full text of classifications [Cl	_P/GHS]
Aguta Tax 4	

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Ox. Sol. 2	OXIDISING SOLIDS - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
Date of issue/ Date of : 11/16/2022	Category 3

Date of issue/ Date of	: 11/16/2022
revision	
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Notice to reader

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SECTION 16: Other information

which may accompany the finished product.

For additional information contact: Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441