

Revision Date 05.11.2009

Version: 1.1

VIR-KIL[®]

SAFETY DATA SHEET

Novartis Animal Health Inc.

according to Regulation (EC) No. 1907/2006

Print Date 06.11.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING Identification of the substance or preparation

identification of the subst
Substance No.
NAH Substance Code
Trade name
Trade name

: 000070003152 : A-20119 A :VIR-KIL (RED)

Company	: Novartis Animal Health Inc.
	Schwarzwaldallee 215
	CH - 4058 Basel
	Switzerland
Telephone	: +41616971111
Contact person	: Phone (office hours) +41 61 697 30 65
E-mail address	: msds.nah@novartis.com
Emergency information	
Emergency telephone	: Phone (24 h) +41 61 696 33 33
Emergency information	: concerning transport see emergency phone number in the shipping

: concerning transport see emergency phone number in the shipping documents concerning storage see emergency phone number of local Novartis organization

2. HAZARDS IDENTIFICATION



Risk advice to man and the environment

Health hazards

- : Harmful if swallowed.
- : Contact with acids liberates toxic gas.
- : Causes burns.
- : Irritating to respiratory system.

Environmental	hazard	in	case	of
(Spillage/Leak	age)			

: Toxic to aquatic organisms, may cause long-term adverse effects in the accident aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	
Use	: Disinfectant
Type of preparation	: Water soluble powder

Hazardous components

Denomination	CAS-No.	Symbol(s)	R-phrase(s)	Concentration (% w/w)
Potassium	70693-62-8	C, Xn	R22, R34, R52	50.00
Peroxomonosulphate				
Sulphamic acid	5329-14-6	Xi	R36/38, R52/53R	15.00
Sodium dichloroisocyanurate	2893-78-9	N, O, Xi, Xn	R 8, R22, R31, R36/37, R50/53	5.00

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

FIRST AID MEASURES	
General advice	: Take off all contaminated clothing immediately.
Inhalation	: Remove to fresh air. Call a physician or Poison Control Centre immediately.
	: If unconscious place in recovery position and seek medical advice.
Skin contact	: Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Consult a physician if any symptoms develop and persist.
Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Ingestion	: Do NOT induce vomiting. Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. If possible drink milk afterwards.



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	Notes to physician	
	Poisoning Symptoms	: Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.
	Risks	: Oral absorption of the product has a strong corrosive effect on the oral cavity and
	Antidote	pharynx and presents a danger of perforating oesophagus and stomach. : No specific antidote is known! Apply symptomatic therapy.
5. FIRE	-FIGHTING MEASURES	
	Combustibility	: yes
	Suitable extinguishing media Special protective equipment for fire-fighters	: Dry powder, foam, carbon dioxide (CO2) or water spray (do not use water jet). : In the event of fire, wear self-contained breathing apparatus.
	Further information	: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.
		 Product is not flammable in itself but it may assist combustion of other materials. Fire fighting personnel should wear breathing apparatus since release of sulphur dioxide gas.
	Swiss Fire Prevention Code	: F4 S C PN3
6. ACC	IDENTAL RELEASE MEASURES	
	Methods for cleaning up	: Clean-up methods - large spillage
		: Refer to protective measures listed in sections 7 and 8. : Collect material in specially marked, tightly closing containers.
		: Do not contaminate waters and sewers.
		: Dispose of in an incinerator approved for chemicals.
		: If safe disposal is not possible, contact the manufacturer, the dealer or the local
		representative.
	Methods for cleaning up	: Clean-up methods - small spillage
		: Sweep up and shovel.
	Additional advice	: After cleaning, flush away traces with water. : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
		environment.
7. HAN	DLING AND STORAGE Handling	
	Safe handling advice	: Avoid dust formation.
	Ũ	: Remove all sources of ignition.
		: Work in a well ventilated area.
		: Product is hygroscopic.
	Advice on protection against fire and explosion	: Keep away from heat and sources of ignition.
	Storage	
	Requirements for storage	: Containers which are opened must be carefully resealed and kept upright to
	areas and containers	prevent leakage. Keep in a dry, cool place.
	Advice on common storage	: Store the product in closed original containers.
	-	: Store separately from fertilizers, feed, food and stimulants.
	Novartis storage class	: 8
	Storage temperature:	: min. 2 °C - max. 40 °C
	Other data	: Protect from humidity. Page 2 of 5



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8. EXPOSURE CONTROLS/PERSONAL P	ROTECTION
Protective measures	: Provide adequate ventilation.
	: The use of technical measures should always have priority over the use of
	personal protective equipment.
	: In working with or around this product precautionary measures should be taken according to workplace health risk assessments and local policies.
Personal protective equipment Open handling	
Respiratory protection	: Respirator with combination filter for vapour/particulate (EN 141). : Type ABEK
Hand protection	: Rubber gloves
Eye protection	: Tightly fitting safety goggles
Skin and body protection Hygiene measures	: Protective suit : Wash hands before breaks and immediately after handling the product.
Tygiene measures	: Shower or bathe at the end of working.
	: Change clothing.
	: Thoroughly clean contaminated equipment with soap or soda solution.
9. PHYSICAL AND CHEMICAL PROPERT	IES
Form	: solid, powder
Colour	: pink
Bulk density	: 1.2 g/cm3
Ph	at 20 °C : 2.1 pH (media): Solution in water 1 %
Radiation	: ca. 6 kBq/kg
	Remarks: Natural occuring radiation due to high potassium content.
10. STABILITY AND REACTIVITY	
Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: Keep away from heat and sources of ignition.
	Protect from moisture.
Materials to avoid	: Strong acids
	Combustible material Keep away from easily oxidizable materials.
Hazardous decomposition	Reep away noni easily oxidizable materials.
products	
	: Sulphur dioxyde
	Oxygen
	Halogen : No decomposition if used as directed.
	. No decomposition il daed as directed.
11. TOXICOLOGICAL INFORMATION	
Acute oral toxicity	: LD50 > 4,000 mg/kg
	Species: rat
Skin irritation	: Corrosive Remarks: Causes severe irritation of eyes, skin and mucous membranes.
Eye irritation	: highly corrosive
Sensitisation	: not sensitizing
12. ECOLOGICAL INFORMATION	
Ecotoxicity effects	
Toxicity to fish	: Remarks: Toxic
Behaviour in environmental com	
Elimination information (persister	ence and degradability) : no data available
Biodegradability	. IIU Uala avaliauit



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13. DISPOSAL CONSIDERATIONS

Product

Contaminated packaging

14. TRANSPORT INFORMATION

Additional Information

Packaging group

Marine pollutant Proper shipping name

Additional Information

Labelling No.

ADR

IMDG **UN-Number**

Class

EmS

: Transport + intermediate storage <=40°C		
: 3260		
: 8		
: 111		
: 8		
: 80		
: Corrosive solid, acidic, inorganic, n.o.s.		

- : Corrosive solid, acidic, inorganic, n.o.s.
- : (Potassium Peroxomonosulphate and Sodium dichloroisocyanurate)

: Refer to protective measures listed in sections 7 and 8. Dispose of in an incinerator approved for chemicals. If safe disposal is not possible, contact the

: Check possibilities of recycling not contaminated packaging material. Damaged

Containers: Place original containers in specially marked larger ones. Dispose of

- : 3260 : 8 : F-A-S-B : 111 : 8 : Corrosive solid, acidic, inorganic, n.o.s.
- : (Potassium Peroxomonosulphate and Sodium dichloroisocyanurate)

ICAO/IATA

UN-Number	: 3260
Class	: 8
Packaging group	: 111
Labelling No.	: 8
Proper shipping name	: Corrosive solid, acidic, inorganic, n.o.s.
Additional Information	: (Potassium Peroxomonosulphate and Sodium dichloroisocyanurate)
Postal delivery - Switzerland	: 2 restricted "Limited Quantities"

manufacturer, the dealer or the local representative.

empty containers in an incinerator approved for chemicals.

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15. REGULATORY INFORMATION

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Labelling according to EC Directives	
Symbol(s)	: CN
	Corrosive
	Dangerous for the environment
R-phrase(s)	: R22 Harmful if swallowed.
	: R31 Contact with acids liberates toxic gas.
	: R34 Causes burns.
	: R37 Irritating to respiratory system.
	: R51/53 Toxic to aquatic organisms, may cause long-term adverse effects
	in the aquatic environment.
S-phrase(s)	: S 1/2 Keep locked up and out of the reach of children.
	: S13 Keep away from food, drink and animal feedingstuffs.
	: S20 When using do not eat or drink.
	: S25 Avoid contact with eyes.
	: S26 In case of contact with eyes, rinse immediately with plenty of
	water and seek medical advice.
	: S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
	: S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
	: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. : S41 In case of fire and/or explosion do not breathe fumes.
	: S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	: S52 Not recommended for interior use on large surface areas.
	: S57 Use appropriate container to avoid environmental contamination.
	: S64 If swallowed, rinse mouth with water (only if the person is conscious).
National legislation	
Weight limit (Switzerland - StFV)	: 20,000 kg

16. OTHER INFORMATION

Text of R-phrases	mentioned in	Section 3
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- R22 : Harmful if swallowed.
- R34 : Causes burns.
- R52 : Harmful to aquatic organisms.
- R36/38 : Irritating to eyes and skin.
- R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 8 : Contact with combustible material may cause fire.
- R22 : Harmful if swallowed.
- R31 : Contact with acids liberates toxic gas.
- R36/37 : Irritating to eyes and respiratory system.
- R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This version replaces all previous versions.

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a 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.