

Revision date: 14-May-2014

Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Sul-Q-Nox

Trade Name: Chemical Family: Not established Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Restrictions on Use: Veterinary product Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance: Dark green liquid Classification of the Substance or Mixture GHS - Classification

> Skin Corrosion/Irritation: Category 1A Serious Eye Damage/Eye Irritation: Category 1 Respiratory Sensitization: Category 1 Skin Sensitization: Category 1

EU Classification:

EU Indication of danger: Corrosive Harmful

C Xn

EU Risk Phrases:

EU Symbol:

R22 - Harmful if swallowed.R35 - Causes severe burns.R42/43 - May cause sensitization by inhalation and skin contact.

Label Elements

Signal Word:	Danger
Hazard Statements:	H314 - Causes severe skin burns and eye damage
	H317 - May cause an allergic skin reaction
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

4001/4002

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Precautionary Statements:	P260 - Do not breathe dust/fume/gas/mist/vapors/spray
	P264 - Wash hands thoroughly after handling
	P272 - Contaminated work clothing should not be allowed out of the workplace
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P284 - Wear respiratory protection
	P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/shower
	P363 - Wash contaminated clothing before reuse
	P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing
	P310 - Immediately call a POISON CENTRE or doctor/physician
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing
	P405 - Store locked up
	P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards Australian Hazard Classification (NOHSC):

Note:

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No data available Hazardous Substance. Dangerous Goods.

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Sulfaquinoxaline	59-40-5	200-423-2	Xn; R22, R42/43	Acute Tox. 4 (H302) Resp. Sens. 1 (H334) Skin Sens. 1 (H317)	30-32
Potassium hydroxide	1310-58-3	215-181-3	Xn; R22 C; R35	Acute Tox. 4 (H302) Skin Corr. 1A (H314)	3-5
Sodium hydroxide	1310-73-2	215-185-5	C; R35	Skin Corr. 1A (H314)	3-5

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Water	7732-18-5	231-791-2	Not Listed	Not Listed	62-68

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Wash off immediately with plenty of soap and water for at least 15 minutes. Get medical attention immediately. Remove and wash contaminated clothing before reuse.
Ingestion:	In the event of swallowing this material, seek immediate medical attention. DO NOT INDUCE VOMITING. Rinse mouth. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Most Important Symptoms and Effect Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure:	ets, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known

Indication of the Immediate Medical Attention and Special Treatment Needed Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture
Hazardous Combustion
Products:Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

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Measures for Cleaning / Collecting:	Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.
Additional Consideration for	Non-essential personnel should be evacuated from affected area. Report emergency

7. HANDLING AND STORAGE

Precautions for Safe Handling

Large Spills:

Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

situations immediately. Clean up operations should only be undertaken by trained personnel.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:Store as directed by product packaging. Keep out of reach of children.Specific end use(s):No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Potassium hydroxide	
ACGIH Ceiling Threshold Limit:	2 mg/m ³
Australia PEAK	2 mg/m ³
Austria OEL - MAKs	2 mg/m^3
Bulgaria OEL - TWA	2.0 mg/m ³
Czech Republic OEL - TWA	1 mg/m ³
Estonia OEL - TWA	2 mg/m ³
Greece OEL - TWA	2 mg/m ³
Hungary OEL - TWA	2 mg/m ³
Japan - OELs - Ceilings	2 mg/m ³
Poland OEL - TWA	0.5 mg/m ³
Sweden OEL - TWAs	1 mg/m ³
Switzerland OEL -TWAs	2 mg/m ³
Sodium hydroxide	- / 3
ACGIH Ceiling Threshold Limit:	2 mg/m ³
Australia PEAK	2 mg/m ³
Austria OEL - MAKs	2 mg/m ³
Bulgaria OEL - TWA	2.0 mg/m ³
Czech Republic OEL - TWA	1 mg/m ³
Estonia OEL - TWA	1 mg/m ³
France OEL - TWA	2 mg/m ³
Greece OEL - TWA	2 mg/m ³
Hungary OEL - TWA	2 mg/m ³
Japan - OELs - Ceilings	2 mg/m ³
Latvia OEL - TWA	0.5 mg/m ³
OSHA - Final PELS - TWAs:	2 mg/m ³
Poland OEL - TWA	0.5 mg/m ³
Slovakia OEL - TWA	2 mg/m ³
Slovenia OEL - TWA	2 mg/m ³

8. EXPOS	URE CONTROLS / PERSONAL PROTECTION		
Sweden OEL - TWAs Switzerland OEL -TWAs	1 mg/m ³ 2 mg/m ³		
Switzenand OLL -TWAS	2 mg/m		
when the available data are sufficient t	sure Band (OEB) classification system is to separate substances into different Hazard categories to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is available data; as such, this value may be subject to revision when new information becomes		
Sulfaquinoxaline Zoetis OEB	OEB 2 (control exposure to the range of 100ug/m^3 to < 1000ug/m^3)		
Exposure Controls			
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section.		
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).		
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.		
Eyes:	Wear safety goggles if eye contact is possible (face shield recommended if splashing is possible).		
Skin:	Wear impervious protective clothing to prevent skin contact.		
Respiratory protection:	Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection, with appropriate protection factors, should be used to minimize exposure.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Liquid No data available. Mixture	Color: Odor Threshold: Molecular Weight	Dark green No data available. Mixture
Solvent Solubility: Water solubility: Water Solubility: pH: Melting/Freezing Point (°C): Boiling Point (°C): Partition Coefficient: (Method, pH, E No data available	• • •		
Decomposition Temperature (°C): Evaporation Rate (Gram/s): Vapor Pressure (kPa): Vapor Density (g/ml): Relative Density: Specific Gravity: Viscosity:	No data available. No data available No data available No data available No data available 1.14 No data available		
Flammablity: Autoignition Temperature (So Flammability (Solids): Flash Point (Liquid) (°C):	lid) (°C):	No data available No data available No data available	

Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): No data available No data available

10. STABILITY AND REACTIVITY

Stable under normal conditions of use.

No data available

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products:

None Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects General Information:

Toxicological properties of the formulation have not been investigated. The information included in this section describes the potential hazards of the individual ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

Sulfaquinoxaline

Rat Oral LD50 1370 mg/kg

Potassium hydroxide Rat Oral LD50 273 mg/kg

Sodium hydroxide Mouse IP LD50 40 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Potassium hydroxide

Skin IrritationRabbitSevereSkin IrritationGuinea PigSevereEye IrritationRabbitModerate

Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Sulfaquinoxaline

90 Day(s) Dog No route specified1 mg/kg/day NOAEL Thyroid

Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Product Level Toxicity Data

11. TOXICOLOGICAL INFORMATION Acute Oral Toxicity Estimate 2440 mg/kg (calculated): **12. ECOLOGICAL INFORMATION** Environmental properties of the formulation have not been investigated. Releases to the **Environmental Overview:** environment should be avoided. Toxicity: No data available Persistence and Degradability: No data available **Bio-accumulative Potential:** No data available No data available Mobility in Soil:

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Waste may be classified as hazardous due to the ph/corrosivity.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.

UN number: UN proper shipping name: Technical Shipping Name: Transport hazard class(es): Packing group: UN1719 Caustic Alkali Liquid, n.o.s. Sodium Hydroxide, Potassium Hydroxide 8 II

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

15. REGULATORY INFORMATION

Canada - WHMIS: Classifications

WHMIS hazard class: Class D, Division 2, Subdivision A Class E

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.



Sulfaquinoxaline	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	
EU EINECS/ELINCS List	200-423-2
Potassium hydroxide	
CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances	1000 lb
and their Reportable Quantities:	454 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 5
for Drugs and Poisons:	Schedule 6
EU EINECS/ELINCS List	215-181-3
Sodium hydroxide	
CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances	1000 lb
and their Reportable Quantities:	454 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 5
for Drugs and Poisons:	Schedule 6
EU EINECS/ELINCS List	215-185-5
Water	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	
EU EINECS/ELINCS List	231-791-2

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Skin corrosion/irritation-Cat.1A; Serious eye damage/eye irritation-Cat.1; H314 - Causes severe skin burns and eye damage Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

C - Corrosive Xn - Harmful

R22 - Harmful if swallowed.R35 - Causes severe burns.R42/43 - May cause sensitization by inhalation and skin contact.

Data Sources:	The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.
Reasons for Revision:	Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations.

Prepared by:

Toxicology and Hazard Communication Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet