SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and ISO 11014-1

1. Product and Company identification

Brand name: PURESAN©

Product name: Pure Mist©

Use of Product: Antibacterial Spray

Company: Puresan (PTY) LTD

190 Hampton Court Drive, Chartwell, Randburg, 2055

South Africa

Emergency Telephone No: Phone +27837000746

2. Hazards Identification

Hazards description:

GHS Classification according to Regulation (EC) No 1272/2008 [CLP]:

Section	Hazard Class	Category	Hazard Statement Code	Hazard Statement
B1	MILD IRRITANT	3	H316 / H320	Irritating to eyes only

EC Classification according to Directive 1999/45/EC:

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Classification	Hazards characteristics			
R R36/38	Irritating to eyes only			

3. Composition / Information on Ingredients

Composition of Pure Mist a complex aqueous ionic solution containing:

Name	CAS No.	EC No.	Content
Copper nitrate	3251-23-8	439-590-3	<0.2%
Zinc nitrate	7779-88-6	231-943-8	<0.1%
Gold	1327-41-9	215-477-2	<0.01%
Silver	7761-88-8	231-853-9	<0.1%
Water	7732-18-5	231-791-2	99%
Impurities	-	-	<0.01%

4. First-aid measures After inhalation: N/A. After skin contact: N/A if undiluted rinse out with plenty of water After eye contact: with the eyelid held wide open. Call in ophthalmologist if necessary. N/A After swallowing: 5. Fire-fighting measures Suitable extinguishing media: N/A (The product is non-flammable and non-explosive) Special risks: None. Special protective equipment for firefighting: None. Other information: None. 6. Accidental release measures Person-related precautionary measures: Avoid direct eye and skin contact when undiluted. Environmental-protection measures: N/A Procedures for cleaning / absorption: Dilute with water. 7. Handling and storage Handling: No further requirements. Storage: No requirements HDPE/PVC containers Suitable Packaging: 8. Exposure controls/personal protection Engineering measures: Not applicable Hygiene measures: None None Personal protective equipment: Eye protection: None

None

None

Hand protection:

Industrial hygiene:

9. Physical and chemical properties

Physical state: Liquid

Colour: Translucent aquamarine.

Odour: Faint of sour

Boiling point: +-100°C + @ 1atm. pressure

Melting point:Not applicableSolubility in water:Solublein waterRelative density:1,3 g/ml at 25°CFlash-point:Not applicable

pH:

10. Stability and reactivity

Stability: Stable under all conditions

Conditions to avoid: None

Materials compatible: Citric acid, benzoic acid, Boric acid, wetting

agents, ethylenediaminetetraacetic acid (ETDA), glycerine, hydroxy acetic acid, phosphoric acid, pine oil, sodiumbicarbonate,

sodiumcarbonate, sodiumaluminate, sodiumnitrite, sodiumpyrophosphate sour, sodiummetaboratetrisodiumphosphate, stannic

chloride, urea.

Materials partly compatible: sodiumtripolyphosphate, vet sodium

pyrophosphate,

sodiummetasilicate, sodiumgluconate,

sodiumchloride

Hazardous decomposition products: None.

Further information: None.

11. Toxicological information

No quantitative data is available for the finished product as the individual components do not form a complex compound and are soluble and individually mobile both in the concentrate and in the dilutions as recommended for intended use.

The LD50/LC50 values mentioned refer to concentrates of the individual raw materials. (IUCLID)

LD50/LC50:

Nitric Acid: Oral, rat : LD50 = 90 mL/kg.

Inhalation, rat : LC50 = 67 ppm(NO2)/4H.

Copper: Oral, Mouse : LD50 = 0.7 mg/kg.

Inhalation, : N/A
Oral : N/A

Zinc: Oral, : N/A Inhalation, : N/A

Silver: Oral, rat : LD50 = >2000 mg/kg.

Inhalation, : N/A

Toxic effects: Non Toxic.

Eye irritation: Moderate Irritant in concentrate form.

12. Ecological information

No quantitative data is available for the finished product as the individual components do not form a complex compound and are soluble and individually mobile both in the concentrate and in the dilutions as recommended for intended use.

When dosing always adhere to environmental limits for the individual components in the country of intended use.

Mobility: Soluble in water

Persistence/degradability: The resulting solution is readily degradable

Bio accumulative potential: Material constitutes ecological good in dilutions as

recommended for intended use. No Bioaccumulation

has been observed.

Further ecological data: The following applies to nitrates in general: may

contribute to the eutrophication of water supplies.

Fish: LC50 > 500 mg/l.

13. Disposal consideration

Methods of disposal: Disposal of as special waste in compliance with local

and national regulations.

Contaminated packaging: Empty containers should be taken for recycling.

recovery or waste disposal in compliance with local

and national regulations.

14. Transport information

Not Subject to transport regulations.

Land transport (ADR/RID): N.O.S. non-corrosive liquid, non-oxidizing,

inorganic, (mixture) No special regulations apply

Sea transport (IMDG): N.O.S. non-corrosive liquid, non-oxidizing,

inorganic, (mixture) No special regulations apply

Air transport (ICAO-IATA/DGR): N.O.S. non-corrosive liquid, non-oxidizing, inorganic,

(mixture) No special regulations apply

15. Regulatory information

Labelling EC:

Symbols: no R-phrases: no S-phrases: no

16. Other information

The information in this safety data sheet is correct to the best of our knowledge, information and belief, at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release of bulk concentrate, 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.

Data sources: ECDIN (Environmental Chem. Data and Information Network)

IUCLID (International Uniform Chemical Information Database) NIOSH - Registry of Toxic Effects of Chemical Substances BGIA – Institute for Occupational Safety and

Health GESTIS International limit values Roth - Wassergefährdende Stoffe Verschueren - Handhoo

Wassergefährdende Stoffe Verschueren - Handbook of Environmental Data on Organic Chemicals Merian - Metals and their compounds in the environment. Merck Index

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