

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 Vet®

Use of Product: Animal Drinking Water Treatment Solution

Company: Puresan (PTY) LTD
190 Hampton Court Drive, Chartwell, Randburg, 2055 South Africa

Emergency Telephone No: Phone+27 837000746

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:

Classification	Hazards characteristics
R R36/38	Irritating to eyes only

3. Composition / Information on Ingredients

Composition of Pure Vet a complex aqueous ionic solution containing:

Name	CAS No.	EC No.	Content
Copper nitrate	3251-23-8	439-590-3	<1.2%
Zinc nitrate	7779-88-6	231-943-8	<0.6%
Gold	7440-57-5	215-477-2	<0.9%
Silver	7761-88-8	231-853-9	<0.3%
Water	7732-18-5	231-791-2	96%
Impurities	-	-	<0.01%

4. First-aid measures

After inhalation:	N/A.
After skin contact:	N/A.
After eye contact:	if undiluted rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.
After swallowing:	if undiluted immediately make victim drink plenty of water. Consult doctor in the event of any complaints. (Never give anything by mouth to an unconscious person).

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:	<i>Avoid direct eye and skin contact when undiluted.</i>
Environmental-protection measures:	N/A
Procedures for cleaning / absorption:	<i>Dilute with water.</i>

7. Handling and storage

Handling:	No further requirements.
Storage:	No requirements
Suitable Packaging:	HDPE/PVC containers

8. Exposure controls/personal protection

Engineering measures:	Not applicable
Hygiene measures:	None
Personal protective equipment:	None
Eye protection:	None
Hand protection:	None
Industrial hygiene:	None

9. Physical and chemical properties

Physical state:	Liquid
Colour:	Translucent aquamarine.
Odour:	Faint – of sour
Boiling point:	+ -100°C + @ 1atm. pressure
Melting point:	Not applicable
Solubility in water:	Soluble in water
Relative density:	1,3 g/ml at 25°C
Flash-point:	Not applicable
pH:	7.3

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), glycerin, hydroxy acetic acid, phosphoric acid, pine oil, sodium bicarbonate, sodium carbonate, sodium aluminate, sodium nitrite, sodium pyrophosphate sour, sodium metaborate tetrasodium phosphate, stannic chloride, urea.
Materials partly compatible:	sodium tripolyphosphate, vet sodium pyrophosphate, sodium metasilicate, sodium gluconate, sodium chloride
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(NO ₂)/4H.
	Oral, Mouse	: LD50 = 0.7 mg/kg.
Copper:	Inhalation,	: N/A
	Oral,	: N/A
Zinc:	Inhalation,	: N/A
	Oral, rat	: LD50 = >2000 mg/kg.
Silver:	Inhalation,	: N/A

Toxic effects: Material is safe for ingestion in dilutions as recommended for intended use.
Irritant to Mouth, oesophagus and intestinal tract in concentrate form.

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. Not hazard for drinking water. Fish: LC50 > 500 mg/l.

13. Disposal considerations

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

Date of issue: September 2018