



## Nanopure Bulk and Domestic water

In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals.

Revision Date 30/05/2022

# SAFETY DATA SHEET

## SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### Company Name, Address, and Telephone:

CREMONA TRADING 23 CC, 26 HIBERNIA STREET, GEORGE 6529

Contact no: Cell: + 27 82 560 7311 Office: +27 44 – 873 4745

Directors: JF Van Rensburg - MD, JHC Gerber - Financial

### Product Identification:

HDPE Packaging suitable for chemical use.

**Size:** 40x 1.25g, 90x 1.25g 40 x 6g, 120x6g.

**Product Form:** Effervescent Tablet.

**Product Name:** Nanochlor / Nanopure.

#### **Synonyms:**

- Sodium Dichloroisocyanurate Dehydrate (NaDCC).
- Quantum Dotted Nano Silver (AgNP).

### Intended Use of the Product:

Bulk and portable Water Purification see table below for correct and safe dilution of tablets per litre:

- 1.25g = 4-6ppm (25Lt water only)
- 3.25g = 1250ppm
- 6g = 2500ppm

Shelf life: 3 years from product manufactured date (See label for Product - Batch no and expiry date).

**Emergency Number:** 082 495 3279 / 073 398 4657.

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Mixture in Water:

**Classification:** Non-Toxic.

**Label Elements:** No labelling applicable.

**Non-GHS Hazards:** Not available.

**Signal Word:** WARNING:

- Tablet in pure form / Keep out of children reach.
- Please see section 11 - oral intake.

## SECTION 3: COMPOSITION OF INGREDIENTS

<b>Sodium Dichloroisocyanurate</b>	51% CAS: 2893-78-9 (1.67g per 3.25g)	NaDCC
<b>Quantum Dotted Nano Silver</b>	0.016% CAS No. 7440-22-4	AgNP



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Revision Date 30/05/2022

**Safe Drinking Bulk Water Storage quantities can be doubled up to not more than 7ppm/per litre:**

Bulk and portable water Disinfection Applications - Nanopure Effervescent tablets				
Liters	Tablet Sizes			PPM (Parts per Million)
	1.25 g	3.25 g	6g	
25	1			4ppm
500		1	1	2.5 / 5ppm
1000		2	1 to 2	2.5 / 5ppm
1500		3	2 to 3	2.5 / 5ppm
2000		4	2 to 4	2.5 / 5ppm
3000		6	3 to 6	2.5 / 5ppm
5000		10	5 to 10	2.5 / 5ppm
10000 20 10 to 20 2.5 / 5ppm				
1 x 1.25g Tablet = 100ppm				
1x 3.25g Tablet = 1250ppm				
1 x 6g Tablet = 2500ppm				



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Revision Date 30/05/2022

### **SECTION 4: FIRST AID MEASURES**

#### **Description of First-aid Measures:**

**General:** When ingesting in undiluted form seek medical advice (show the label where possible).

**Inhalation:** No known side effects. Not harmful.

**Skin Contact:** No known side effects. Not harmful.

**Eye Contact:** No known side effects. Not harmful.

**Ingestion:** Symptoms occur: Heart burn may occur if large quantities are swallowed in undiluted form.

**Personal Protection in First Aid and Measures:** Not available.

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Non-Toxic** - If exposed or concerned seek medical advice and attention, have product container or label at hand.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Special Hazards Arising from The Mixture:**

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Do not mix or use this product with any other chemical.

#### **Reference to Other Sections:**

Refer to Section 9 for Flammability Properties

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions, Protective Equipment and Emergency Procedures:**

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray) in undiluted form.

**Protective Equipment:** It is not necessary to use personal protective equipment (PPE).

**Emergency Procedures:** Mixture can be used in confined or open spaces with no harmful gasses or odours.

#### **Environmental Precautions:**

Non-Hazards and Non-Toxic.

#### **Methods and Materials for Containment and Cleaning Up:**

**For Containment:** If split in small or large quantities let solution self-dry or spray down with water.

**Methods for Cleaning Up:** Clean up spills as above.

#### **Reference to Other Sections:**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.



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Revision Date 30/05/2022

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling:**

**Additional Hazards When Processed:** Mixture is non-hazardous .

**Precautions for Safe Handling:** No special transport or handling is needed.

### **Conditions for safe Storage, Including any Incompatibilities:**

**Technical Measures:** Comply with applicable regulations including product storage specifications.

**Incompatible Materials:** Refer to Section 10.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place (25°C). Keep/Store away from direct sunlight, extremely high temperatures and away from incompatible materials. Keep in original container.

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **Control Parameters:**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer.

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

### **Exposure Controls:**

**Appropriate Engineering Controls:** Safe to use in doors and in public areas. Ensure all national/local regulations are observed.

### **Personal Protective Equipment:**

**Personal Protective Equipment:** Not required for normal conditions of use. gloves; protective clothing and protective goggles.

**Materials for Protective Clothing:** Not applicable.

**Hand Protection:** Not applicable.

**Eye and Face Protection:** Not applicable.

**Skin and Body Protection:** Not applicable.

**Respiratory Protection:** Not applicable.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on Basic Physical and Chemical Properties:**

**Physical State (diluted):** Tablet.

**Appearance:** White.

**Odour:** None.

**Odour threshold:** Not available.

**pH 6.5 / 7.2 when mixed with water.**

**Evaporation Rate:** Not available.

**Melting Point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not available.

**Auto-ignition Temperature:** Not applicable.

**Decomposition Temperature:** Not applicable

**Water Solubility:** Not applicable.

**Lower Flammable Limit:** Not available.

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**Upper Flammable Limit:** Not available.

**Vapour pressure:** Not available.

**Relative vapour density:** Not available.

**Relative Density:** Not available.

**Vapour pressure:** No data available.

**Vapour density:** Not applicable under standard conditions.

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Not Reactive to any Surfaces or Metals.

**Chemical Stability:** Stable under recommended handling and storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Do not heat above 40°C (liquidity) as it may affect the efficiency.

**Incompatible Materials:** Organic materials, reducing agents, nitrogen containing materials, oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.

**Hazardous Decomposition Products:** Nitrogen trichloride, chlorine, carbon monoxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects – Product in diluted form:

**Acute Toxicity (Oral):** Non-toxic if swallowed.

**Acute Toxicity (Dermal):** Non-toxic on contact with skin.

**Acute Toxicity (Inhalation):** Not classified.

**Skin Corrosion/Irritation:** Not classified (Not irritating to skin).

**Serious Eye Damage/Irritation:** Not classified (Not irritating to eyes).

**Respiratory or Skin Sensitization:** Not classified (Not irritating to skin).

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** None.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries after Inhalation:** None.

**Symptoms/Injuries after Skin Contact:** None.

**Symptoms/Injuries after Eye Contact:** None.

**Symptoms/Injuries after:** May feel nausea if large quantities are ingested undiluted.

**Chronic Symptoms:** None expected under normal conditions of use.

### Information on Toxicological Report - Ingredient(s):

Documentation can be supplied on request Toxicology Report Intertek (UK).

## SECTION 12: ECOLOGICAL INFORMATION

**Acute Aquatic Toxicity:** Not classified.

**Chronic Aquatic Toxicity:** Not classified.

**Ecology – General:** Not classified.

**Persistence and Degradability:** Not established.

**Bio accumulative Potential:** Not established.

**Mobility in Soil:** Not available.

**Other Adverse Effects.**

**Ozone:** Not classified.



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### SECTION 13: WASTE DISPOSAL INFORMATION

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, regulations.

**Additional Information:** Continue to observe all precautions.

**Ecology - Waste Materials:** Nanopure is Non-Toxic.

### SECTION 14: TRANSPORT INFORMATION

No special transport specifications are needed. The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored.

### SECTION 15: REGULATORY INFORMATION

\*Percentages are listed in weight-by-weight percentage (w%) for liquid and solid ingredients. PPM (Part per Million) see label for dilution table (Section 3).

#### Ingredients approved (Drinking Water):

##### **NaDCC - Sodium Dichloroisocyanurate Dehydrate:**

- WHO - World Health Organization.
- UNICEF /NSF.
- EPA - US Environmental Protection Agency (EPA) for routine treatment of drinking water.
- The Food and Agricultural Organization (FAO) specifications for drinking water **AgNP – Nano Silver**.
- In Germany, the drinking-water regulations (Trinkwasserverordnung) set an allowable maximum for silver of 0.08 mg/L.
- WHO – World Health Organization often refer to 0.1 mg/L Nano Silver as a guideline or allowable amount for drinking-water quality.

EPA - Nanosilver in Drinking-water equivalent level (mg/L) 0.2.



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### **SECTION 16: OTHER INFORMATION**

#### **Date of Preparation or Latest Revision 30/05/2022:**

#### **Data Sources:**

Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product ingredient specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

#### **Disclaimer:**

The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and discloses the physical and health hazards of all hazardous chemicals contained in the Product described in this MSDS, but unless otherwise noted, does NOT describe or disclose ALL of the chemicals/components in the Product, some of which may be Trade Secrets.

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