


<b>SAFETY DATA SHEET</b>	
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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

**Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Product name:** Gadozinc+

**Product type:** Solid

**Product code (supplier):** 09052\*\*\*\*\*

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

In toothpaste and mouthwash.

Fortification of food stuff with zinc.

**1.3 Details of the supplier of the safety data sheet**

Gadot Biochemical Industries LTD.

117 Hahistadrut Ave.

POB 10636

Haifa Bay 26118, Israel

Tel: +972-4-8461-555

Fax: +972-4-8461-560

**E-mail address of person responsible for this SDS:** N/A

**1.4 Emergency telephone number**


**Emergency telephone number (with hours of operation):** +972-4-8461-555

**Section 2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

Product name	EU Classification
Gadozinc+	Xi; R36 N; R50/53

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## **2.2 Label elements**

### **Labelling in accordance with 1999/45 (DPD)**

#### **Hazard symbol(s):**

Xi; Irritant N; Dangerous for the environment



#### **Risk phrase(s):**

R36: Irritating to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Safety phrase(s):**

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

## **2.3 Other hazard**

None

## **Section 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Substance/preparation:**

Product/ Ingredient name	Identifiers	%	EU Classification
Zinc oxide	CAS number: 1314-13-2 EC number: 215-222-5	40	N; R50/53
Citric acid anhydrous	CAS number: 77-92-9 EC number: 201-069-1	60	Xi; R36

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in section 8. See section 16 for the full text of the R-phrases declared above.**

## **Section 4. FIRST AID MEASURES**


### **4.1 Description of first aid measures**

**Eyes contact:** In case of contact with eyes rinse opened eyes under running water for at least 15 minutes and seek medical advice.

**Skin contact:** In case of contact with skin, immediately take off all contaminated clothing and wash off with plenty of water for at least 15 minutes, and seek medical advice.

**Inhalation:** Remove the casualty into fresh air and keep him calm. If breathing is difficult, give oxygen. Apply artificial respiration if necessary and get medical attention immediately.

**Ingestion:** If large quantities of this material are swallowed, call a physician immediately. Do not

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induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If victim is conscious give water to drink.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritating to eyes, respiratory system and skin.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Section 5: FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable: Water spray, foam, CO<sub>2</sub>, chemical powder.

Not suitable: N/A

**5.2 Special hazards arising from the substance or mixture**

Hazardous thermal decomposition products: Zinc, zinc oxide, irritating and toxic fumes.

**5.3 Advice for firefighters**

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ventilate area of spill. Avoid breathing dust.

**6.2 Environmental precautions**

Do not let this chemical enter the environment. Keep away from drains, surface and ground water.

**6.3 Methods and materials for containment and cleaning up**

Avoid excessive generation of dust. Stop dust cloud by humidifying. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Large spill: As for small spill

**Personal Protection in Case of Large Spill:** Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product.


**6.4 Reference to other sections**

See Section 1 for emergency contact information.

**Section 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Handling:** Do not breathe dust. Avoid contact with skin and eyes. Wash thoroughly after handling.

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**Hygiene Measures:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:** Store and use away from heat, sparks, open flame or any other ignition source. Keep containers tightly closed, in a dry, cool and well ventilated place. Prevent dust buildup by providing adequate ventilation. Store away from strong oxidizing agents.

**7.3 Specific end use(s):** N/A

**Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational exposure limit values:**

Ingredient name	Occupational exposure limits
Zinc oxide	ACGIH-TLV 2 mg/m <sup>3</sup> (TWA), 10 mg/m <sup>3</sup> (STEL), respirable

**8.2 Exposure controls**

**Engineering Measures**

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Person Protective measures**

Respiratory protection: Suitable respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Eye/face protection: Wear protective safety glasses, goggles.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hand protection: Wear protective gloves to prevent skin exposure.

**Environmental exposure controls:** Not available

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance: White crystalline powder

Odour: Practically odorless

Odour threshold: N/A

pH: 4.0-5.0 (1% solution)

Melting point/Freezing point: 335°C

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

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Vapor density: N/A  
Relative Density: N/A  
Solubility(ies): Readily soluble in water  
Partition coefficient Octanol/Water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: N/A  
Explosive properties: N/A  
Oxidizing properties: N/A

**9.2 Other information:** N/A

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

### 10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Heat, sparks and open flame.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous Decomposition products

Not available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity:

Product/ingredient name	Test	Species	Dose
Zinc oxide	LD50, oral	Mouse	7950 mg/kg
Citric acid	LD50, oral	Rat	3000 mg/kg


**Irritation:** N/A

**Corrosivity:** N/A

**Sensitization:** N/A

**Repeated dose toxicity:** N/A

**Carcinogenicity:** N/A

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**Mutagenicity:** N/A

**Toxicity for reproduction:** N/A

**Other effects:**

Irritating mucos membranes and upper respiratory tract. May be harmful by inhalation, ingestion or skin absorption.

**Section 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

<b>Substance name</b>	<b>Toxicity to fish</b>	<b>Toxicity to Daphnia Magna (water flea)</b>
Zinc oxide	Rainbow trout, LC50/96h – 1.1 mg/l	Daphnia magna, EC50/48h- 0.098 mg/l

**12.2 Persistence and Degradability**

N/A

**12.3 Bioaccumulative potential**

N/A

**12.4 Mobility in soil**

Soil/water partition coefficient (Koc): N/A

**12.5 Results of PBT and vPvB assessment**

Not applicable

**12.6 Other adverse effects:**

N/A

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Packing**

Empty containers should be taken for local recycling, recovery or waste disposal.

**Section 14: TRANSPORT INFORMATION**

**14.1 Un number:**

ADR/RID: 3077


IMDG: 3077

IATA: 3077

**14.2 Proper shipping name:**

ADR/RID: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

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IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

IATA: Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

**14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

**14.4 Packing group**

ADR/RID: III

IMDG: III

IATA: III

**14.5 Environmental hazard**

Marine Pollutant: N/A

**14.6 Special precautions for user**

Not available

**14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

**Section 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Directives 67/548/EEC and 1999/45/EC (including amendments)

EU Regulation(EC) No.1907/2006 (REACH)

**15.2 Chemical safety assessment**

N/A

**Section 16: OTHER INFORMATION**

**Training advice:** Before using/handling the product one must read carefully present MSDS.

**Recommended restriction:** N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined


N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

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