

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR ENTERPRISE

1.1 Product identification

Product type: fertilizer

Product name: Cropcell Zinc

Description of the substance: Zinc oxide in suspension

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

1.2.1 Relevant Identified Uses

Agriculture: fertilizer for professional use on agricultural crops and plantations

1.2.2. Discouraged uses

No further information available

1.2 Safety data sheet supplier information

Company responsible for marketing:

CROPCELL WORLD S.L.
Av. Constitución 43
07340 Alaró (Illes Balears)

1.4 Emergency telephone

National Institute of Toxicology: 915 620 420

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

2.2 Label elements

Labeling according to European Regulation 1272/2008

Pictogram:



Indication of danger

H410: Very toxic to aquatic life with long lasting effects.

Cautionary advice

P270 Do not eat, drink or smoke during use. P273: Avoid release to the environment.

P280: wear protective gloves, protective clothing, goggles and mask

P302 + P352: In case of contact with skin, wash with plenty of soap and water.

P102 Keep out of the reach of children.

See section 16 for information on full text hazard statements (H).

Supplementary information: not applicable

2.3 Other hazards

Substance meets BBT criteria according to Regulation EC 1907/2006, Annex XIII: NA

Substance meets vPvB criteria according to Regulation EC 1907/2006, Annex XIII: NA Other hazards not resulting from classification: NA

See section 11 for more detailed information on symptoms and health effects.

SECTION 3: COMPOSITION/INFORMATION ON COMPONENTS

3.1 Substances

Not applicable.

3.2 Mixes

Name of substance	%	CAS No.	EC NO.
Zinc oxide	40%	1314-13-2	215-222-5

SECTION 4: FIRST AID

4.1 Description of first aid measures

General first-aid measures: In case of discomfort, consult a doctor (show the label whenever possible).

First aid measures in case of inhalation: move the victim to fresh air. In case of malaise, consult a doctor.

First-aid measures after skin contact : Remove affected clothing and wash exposed skin areas with mild soap and water, then rinse with warm water. In case of skin irritation: consult a doctor.

First-aid measures after eye contact: IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult a physician.

First-aid measures after ingestion: In case of ingestion, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Consult a doctor if you feel unwell.

4.2 Main symptoms and effects, acute and delayed

Corrosive product, contact with eyes or skin may cause burns, ingestion or inhalation may cause internal injuries. In case of occurrence, immediate medical assistance is required.

Harmful product. Prolonged exposure by inhalation may cause anesthetic effects and the need for immediate medical attention.

Contact with the eyes can cause irreversible damage.

4.3 Indication of any medical care and special treatment that should be given immediately

In cases of doubt or when symptoms of discomfort persist, seek medical attention. Never administer anything by mouth to unconscious persons. Do not induce vomiting. If vomiting occurs, clear the airway.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder or CO₂. In case of more serious fires also alcohol-resistant foam and water spray.

Unsuitable extinguishing media: do not use direct water jet for extinguishing. In the presence of electrical voltage it is not acceptable to use water or foam as extinguishing media.

5.2 Specific hazards of the substance or mixture

Fire hazard: non-combustible.

Explosion hazard: not classified.

In case of fire: use appropriate extinguishing media: fire extinguishers, dry foam, water or other compounds.

Unusual explosion or fire hazards: low amounts of oxides may occur.

Explosion risks due to impact: not available.

Explosion hazards due to static electricity discharge: not available.

5.3 Recommendations for firefighting personnel

Fire precautions: follow the safety instructions.

Firefighting instructions: All firefighting personnel should wear protective suits. Use appropriate means to fight surrounding fires.

Protection during firefighting: wear self-contained breathing apparatus in the vicinity of the fire.

Additional information: do not pour directly down the drain.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL SPILLAGE

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency services personnel: avoid contact with the product.

For emergency personnel: wear appropriate protective clothing.

6.2 Environmental precautions

Do not contaminate water with the product or its container. Do not clean the product application equipment near surface water, avoid contamination through farm drainage systems and roads.

6.3 Environmental precautions

Collect the product with absorbent material such as sand, earth, diatomaceous earth, etc. Prevent it from spreading by means of dikes of absorbent material. Collect in specially marked sealed containers. If safe disposal is not possible, contact the manufacturer, sales agent or local representative.

Use appropriate personal protective equipment: gloves, protective glasses, boots and waterproof suit.

6.4 References to other sections

See Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

Hygiene measures: do not eat, drink or smoke in places where the product is used. Handle with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including possible incompatibilities

Technical measures: Handle and open containers with care.

Storage conditions: keep away from food and beverages, including animal feed products.

Incompatible products: strong acids. Strong oxidizing agents.

Incompatible materials: see section 10 on incompatible materials.

Storage temperature: 5 - 35 °C

Place of storage: Store at room temperature. Store avoiding freezing. Store in a place protected from heat and humidity. Store in a dry place. Store in a well-ventilated place.

Special packing instructions: keep in original container.

7.3 Specific end uses

Fertilizer

SECTION 8: EXPOSURE CONTROLS/INDIVIDUAL PROTECTION

8.1 Control parameters

COUNTRY	Agent	CAS	Annotation	Identifier	VLAED [mg/m ³]	VLAEC [mg/m ³] VLAEC [mg/m ³] VLAEC [mg/m ³] VLAEC [mg/ m ³]	Source
EN	zinc oxide	1314-13-2	r	VLA	2	10	INSHT

Annotation

i Inhalable fraction r

Respirable fraction

VLA-EC Short-term environmental exposure limit value (short-term exposure level): limit value above which no exposure should occur and which refers to a period of 15 minutes (unless otherwise specified).

ELV-ED Environmental limit value-daily exposure (long-term exposure limit): time measured or calculated in relation to a reference period of an eight-hour time-weighted average (unless otherwise specified), VLA-VM Maximum value above which no exposure should occur (ceiling value).

DNEL

Workers - Inhalation; Long-term Systemic effects: 5 mg/m³ Workers - Inhalation;

Long-term Local effects: 0.5 mg/m³ Workers - dermal; Long-term Systemic effects: 83 mg/kg/day General - Inhalation; Long-term General - Inhalation; Long-term Systemic effects: 2.5 mg/m³

General Contamination - Dermal; Long-term Systemic Effects: 83 mg/kg/day General

Contamination - Ingestion; Long-term Systemic Effects: 0.83 mg/kg/day

PNEC

Fresh water; 0.0206 mg/l

- Marine water; 0.0061 mg/l

- STP; 100 µg/l

- Sediment (fresh water); 235.6* mg/kg sediment dw

- Sediment (from seawater); 113* mg/kg sediment dw

- Soil; 106.8** mg/kg

All units are expressed in mg/µg of:

Zinc.

These no effect predicted concentrations are values of no effect predicted concentrations added, should be added to the background of: Zinc.

in the appropriate compartments (e.g. soils, sediments).

(*) A generic bioavailability factor of 0.5 is applied by default, according to the EU risk assessment (ECB 2008).

(**) by default, this value was multiplied by "3" to take into account "laboratory to field" differences in toxicity.

(STP) The predicted no-effect concentration for the wastewater treatment plant was derived by applying a titration factor to the lowest relevant toxicity value (5.2 mg Zn/l).

8.2 Exposure controls

Appropriate engineering controls: ensure adequate ventilation.

Personal protective equipment: safety glasses. Gloves.

Hand protection: protective gloves.

Eye protection: safety glasses.

Skin and body protection: provide skin protection adapted to the conditions of use.

Respiratory protection: do not breathe aerosols. In case of insufficient ventilation, wear suitable respiratory equipment.



SECTION 9: PHYSICO-CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Color: White
Olfactory threshold: Not applicable
Odor: Characteristic odor
pH: 9,0-10,0
Melting point/Freezing point: Not available
Initial boiling point and boiling range:

Not available
Flash point: Not available
Evaporation rate: Non-flammable
Flammability: Non-flammable
Upper/lower flammability or explosive limits:

Not available
Vapor pressure: Not available
Vapor density: Air =1:available
Relative density: 1.40 kg/L
Solubility(ies): Watersoluble
Partition coefficient n-octanol/water: Not available
Self-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: Non-explosive
Oxidizing properties: Non oxidizing

9.2 Additional information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product does not present hazards due to its reactivity.

10.2 Chemical stability

Unstable in contact with: bases

10.3 Possibility of hazardous reactions

Neutralization may occur in contact with bases.

10.4 Conditions to avoid

Avoid contact with bases, heat sources and sun exposure.

10.5 Incompatible materials

Strongly oxidizing materials.

10.6 Hazardous decomposition products

Nitrogen oxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substance

No tested data are available for the product.

Repeated or prolonged contact with the product may cause removal of oil from the skin, resulting in non-allergic contact dermatitis and absorption of the product through the skin.

Acute toxicity: no tested data available for the product.

Skin corrosion or irritation: inconclusive data for classification.

Serious eye damage or eye irritation: product classified: serious eye damage, Category 1: causes serious eye damage.

Ingestion: Harmful if swallowed. LD50 oral LD50 rat [mg/kg:319] Respiratory or skin sensitization: data inconclusive for classification. Carcinogenicity: data inconclusive for classification.

Reproductive toxicity: Inconclusive data for classification.

Specific target organ toxicity (STOT) - single exposure: data inconclusive for classification. Specific target organ toxicity

(STOT) - repeated exposure: data inconclusive for classification. Aspiration hazard: data inconclusive for classification.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity: no data available

Sediment toxicity: no data available.

Terrestrial toxicity: This product is irritating to animals. Spills in large quantities to small areas can significantly alter the nutrient composition of the soil, altering the flora.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available

12.5 Results of the PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Methods for waste treatment

Dispose of safely according to local/national regulations. Avoid personal exposure.

Dispose of waste products in an authorized chemical waste treatment facility.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN NO. (ADR/RID) 3077

UN NO. (IMDG) 3077

UN NO. (ICAO) 3077

14.2 UN proper shipping name

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide), 9, III, (E)

Proper shipping name (ADR/RID): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Proper shipping

name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Proper shipping name (ICAO):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Proper shipping name (ADN): ENVIRONMENTALLY

HAZARDOUS SUBSTANCE, SOLID, N.O.S.

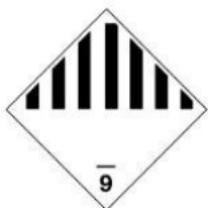
14.3 Transport hazard class(es)

ADR/RID Class: 9

ADR/RID label: 9

IMDG Class: 9

ICAO Class/Division: 9



14.4 Packaging group

Packaged Group ADR/RID III

Packaged Group IMDG III Packaged

Group ICAO III Packaged Group

ICAO III

14.5 Environmental hazards



14.6 Particular precautions for users

SmE: F-A, S-F

Emergency action code: 2Z

Tunnel restriction code: (E)

14.7 Carriage in bulk under Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.

Directive 91/689/EEC on hazardous waste. Directive 91/156/EEC on waste.

EC Regulation 1907/2007 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals REACH.

Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals REACH.

Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures.

Royal Decree 363/1995. Regulation on classification, packaging and labeling of hazardous substances.

15.2 Chemical safety assessment

Chemical safety assessment has been carried out for this product.

SECTION 16: OTHER INFORMATION

Revisions to this MSDS: version: 01

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, it should not be construed as a guarantee of any specific product feature.