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1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial name: **Maxflow Zn**

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

Identified uses: Fertilizer (Agriculture).

Uses advised against: Not identified.

1.3. Details of the supplier of the safety data sheet

TRADE CORPORATION INTERNATIONAL, S.A.U.
 c/ Alcalá, 498 - 2nd floor
 28027 - Madrid (Spain)
 Telephone: +34 91 327 32 00 Fax: +34 91 304 71 72
 E-mail: sds@tradecorp.sapec.pt

1.4. Emergency telephone number

Tradecorp telephone (9h-17h CET): +34 91 327 32 00.

International emergency number (24h): +1 703-741-5970.

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with European Regulation (EC) No. 1272/2008:

H319 - Eye irritant (Category 2)

H410 - Aquatic chronic 1

2.2. Label elements

Hazard pictogram(s):



Signal word(s):

Warning

Hazard statement(s):

H319: Causes serious eye irritation.

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

Precautionary statement(s):

P264 Wash contaminated skin thoroughly after handling.

P273: Avoid release to the environment.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P391: Collect spillage.
P501: Dispose of contents/container to a licensed site.

2.3. Other hazards

No data available.

3. SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixture

Product identifier: **Maxflow Zn**

The mixture contains the following dangerous substance:

Name	CAS No.	EC No.	REACH Registration No.	Concentration in the mixture	Classification according EC Reg. No. 1272/2008
Zinc oxide	1314-13-2	215-222-5	01-2119463881	45-55%	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Anionic surfactants	-	-	-	<3%	H302 Acute Tox 4. H315 Skin Irrit-2. H318 Eye Dam 1

Full text of H and P phrases: See section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Keep patient at rest and maintain body temperature. Remove the victim to a ventilated area. Get medical attention. Give symptomatic and supportive treatment, if required.

Skin contact:

After contact with skin, remove contaminated clothing and wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

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Eye contact:

Immediately wash affected eyes for at least 15 minutes, taking care to rinse under eyelids. Consult an eye specialist.

Ingestion:

Rinse mouth with water. Get medical attention and show the label or packaging. Do not induce vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

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

No data available.

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

All treatments should be based on observed signs and symptoms.

5. SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: chemical powder, CO₂, water spray or alcohol resistant foam.
 Unsuitable extinguishing media: Direct water spurt (water jet).

5.2. Special hazards arising from the substance or mixture

Possibility of exposure to toxic combustion products.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and personal protective equipment.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Isolate and delimit the affected area.
 Eliminate all sources of ignition.
 Use personal protective equipment and respiratory protection.
 Avoid contact with skin and eyes.
 Evacuate personnel to safe areas.
 Ensure adequate ventilation.

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6.2. Environmental precautions

Prevent the product reaches the sewer.
Prevent soil contamination.

6.3. Methods and material for containment and cleaning up

Clean up with absorbent materials (eg. soil, sand, diatomaceous earth or any non-flammable absorbent).
Store collected material in adequate containers for disposal. Label these containers and manage in accordance with local regulations.
Do not mix with other waste materials.
If there are spills or uncontrolled discharges on surface waters (or water for public use), immediately inform the local authorities.

6.4. Reference to other sections

See Sections 8 and 13.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

See also Section 8.
Use personal protective equipment (PPE). Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
Do not handle the product near a source of ignition or near open flame.
Do not smoke, drink or eat while handling the product.
Wash hands with soap after handling and before eating, drinking, smoking or using the toilet.
Remove clothing immediately if the product is inside. Wash skin thoroughly with mild soap and dress clean clothes.

7.2. Conditions for safe storage, including any incompatibilities

Do not store near or with any of the incompatible materials listed in Section 10.
Do not store with food, beverages, feed and water supplies.
Do not store near flame, heat sources or near strong oxidizing agents.
Avoid extreme temperatures.
Store the product in the original container.
Keep tightly closed containers in a dry, cool and well ventilated sheltered from the sun.
Keep out of reach of unauthorized persons, children and animals.

7.3. Specific end use(s)

See section 1.2.

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8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s): No data available for this product.

8.2. Exposure controls

8.2.1 Proper technical controls

See also Section 7.

Ensure adequate ventilation and/or exhaust ventilation.

8.2.2 Individual protective measures

Respiratory protection: Use breathing mask with appropriate filter.

Hand protection: Use protection gloves.

Eye protection: Wear safety glasses with side-shields (e.g. EN 166) or facial protection screen.

Skin and body protection: Work clothes, apron and protective boots are recommended.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Have eye wash bottle with distilled water. Remove and wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling.

8.2.3 Environmental exposure controls

Do not flush into surface waters or sanitary drain systems.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	White off
Odour:	Odourless
Odour threshold:	Not applicable
pH:	8,5 (1% solution)
Freezing point:	No data available
Boiling point:	No data available
Evaporation rate:	No data available
Flash point:	Not applicable
Decomposition temperature:	No data available

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Auto-ignition temperature:	Not applicable
Flammability:	Not applicable
Explosive properties:	Not applicable
Oxidizing properties:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Viscosity:	No data available
Density:	1,7 g/cc
Solubility:	Water insoluble
Partition coefficient n-octanol/water (log Pow):	No data available

9.2. Other information

No data available.

10. SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

No hazard reactions are expected under normal processing.

10.4. Conditions to avoid

Avoid extreme temperatures.

10.5. Incompatible materials

Strong acids.

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10.6. Hazardous decomposition products

No data available.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

- (a) **Acute toxicity:** No data available.
- (b) **Skin corrosion/irritation:** No data available.
- (c) **Eye damage/irritation:** No data available.
- (d) **Respiratory or skin sensitization:** No data available.
- (e) **CMR – Carcinogenicity, Mutagenicity and Reproductive toxicity:** No data available.
- (f) **STOT – single and repeated exposure:** No data available.
- (g) **Aspiration hazard:** No data available.

12. SECTION 12: Ecological information

12.1. Toxicity

- (a) **Aquatic toxicity:** No data available.
- (b) **Sediment toxicity:** No data available.
- (c) **Terrestrial toxicity:** No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

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12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste materials at a licensed site.

Rinse with water the used containers three times and empty the water into the application tank.

Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

14. SECTION 14: Transport information

14.1. UN number

ADR: 3082

RID: 3082

IMDG: 3082

IATA: 3082

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide)

ADR/RID

Other details:

Classification code: M6

Labels: 9

Environmentally hazardous substance

IP Number: 90

Tunnel code: (E)

Transport category (exemption 1.1.3.6): 3

Exemption LQ inner packaging, to a maximum of : 5 L

Exemption LQ package, up to: 30 kg

IMDG:

Other details:

Labels: 9

Marine Pollutant

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Exemption LQ inner packaging, to a maximum of : 5 L
 Exemption LQ package, up to: 30 kg
 FEm: F-A, S-F
 Stowage Category A

ICAO/ IATA:
 Ohter details:
 Labels: Miscellaneous
 Enviromentally hazardous substance
 Secondary risk: none
 Packing instructions on passenger and freight aircraft: 964
 Maximum net quantity per package on passenger and freight aircraft: 450 L
 Limited quantity on passenger aircraft:
 Packing instructions: Y964
 Maximum net quantity per package: 30kg

14.3. Transport hazard class(es)

ADR: 9
 RID: 9
 IMDG: 9
 IATA: 9

14.4. Packing group

ADR: III
 RID: III
 IMDG: III
 IATA: III

14.5. Environmental hazards

Dangerous for the environment: Yes
 Marine Pollutant: Yes

14.6. Special precautions for user

Avoid heat sources during transport. The product is stable at room temperature, but high temperatures should be avoided.
 Must only be transported in approved and properly marked, labeled and sealed containers.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

This product is not transported in bulk in any case.

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15. SECTION 15: Regulatory information

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

- European Regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures.
- European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
- Commission Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this product.

16. SECTION 16: Other information

Revision of this safety data sheet:

Revision number: 4.1
 Supersedes: 4.0
 Added, deleted or revised information: New emergency telephone.

Legend to abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.2

IMDG: International Maritime Dangerous Goods.

PBT: Persistent, Bioaccumulative and Toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STOT: Specific Target Organ Toxicity.

vPvB: Very Persistent and very Bioaccumulative.

Key literature references and sources for data:

ESIS: European Chemical Substances Information System.

ECHA: European Chemicals Agency: <http://echa.europa.eu/>

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Classification and Labelling Inventory Database: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Institute for Health and Consumer Protection (European Commission): <http://ihcp.jrc.ec.europa.eu/>

Instituto Nacional de Seguridad e Higiene en el Trabajo: <http://www.insht.es>

List of relevant hazard statements and/or precautionary statements:

Hazard statement:

H319: Causes serious eye irritation.

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

Precautionary statement:

P264 Wash contaminated skin thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P391: Collect spillage.

P501: Dispose of contents/container to a licensed site.

The content and format of this safety data sheet are in accordance with the current applicable legislation.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.