ZONE

Zone Imaging Ltd. Safety Data Sheet

Eco Zonefix Fixer Part A

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name Eco Zonefix

Product number 5060594641107

Container size 65g

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

Identified uses Photographic Fixer

Other uses None

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. <u>Classification of the substance or mixture</u>

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Oral acute toxicity 4: H302

Eye Damage 2: H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the hazard statements declared above.

2.2. <u>Label elements</u>

Pictograms



Signal word Warning

Hazard statements H302 – Harmful if swallowed. Acute tox. 4

H319 – Causes serious eye irritation. Eye dam. 2

Precautionary statements

Prevention P264 – Wash hands and equipment thoroughly after handling.

P270 – Do not eat/drink/smoke when using this product.

P280 – Wear protective gloves/protective clothing/eye

protection/face protection.

Response P301 + P312 – IF SWALLOWED: Call a POISON CENTER or

doctor if you feel unwell.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, continue rinsing.

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

2.3. Other Hazards

Other hazards which do not

result in classification None.

SECTION 3: Composition/information on ingredients

3.1. Mixture of the substances listed below with harmless additions

Substance name	Identifiers	% w/w	Hazards
Ammonium chloride	CAS# 12125-02-9 EC# 235-186-4 REACH# 01-2119487950-27	50-75%	H302 Acute toxicity 4 H319 Eye damage 2

SECTION 4: First aid measures

4.1. <u>Description of first aid measures</u>

General If symptoms persist, call a physician.

Inhalation Fresh air. Get medical attention if symptoms occur.

Skin contact Take off immediately all contaminated clothing. Wash off

immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Get medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get

medical attention if symptoms occur.

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

No data available.

4.3. <u>Indication of any immediate medical attention and special treatment needed</u>

Notes for physician Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical, alcohol-resistant foam, or

water jet.

Use firefighting measures that suit the environment.

Unsuitable extinguishing media No data available.

5.2. Special hazards arising from the substance or mixture

Specific risksNone, this product is non-flammable nor explosive.

Hazardous combustion products Thermal decomposition or combustion products may include

sulphur, sodium, carbon, and ammonium oxides.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment In the event of fire, wear self-contained breathing apparatus,

MSHA/NIOSH (approved or equivalent) and full protective

gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Advice for non-emergency personnel: Avoid inhalation of

dusts. Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. For personal

protection see section 8.

Environmental precautions

Environmental precautions Do not allow to enter drainage system, surface, or ground

water. Should not be released into the environment. Collect

and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Cover drains. Sweep up and shovel into suitable containers

for disposal. Keep in suitable, closed containers for disposal.

Avoid generation of dusts.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear personal protective equipment/face protection. Ensure

adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. For full precautions, see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep containers tightly closed in a dry, cool and well-

ventilated place. Store under an inert atmosphere. Protect

from moisture.

Storage class Chemical storage.

Technical Rules for Hazardous Class 13 **Substances (TRGS) 510Storage Class**

(LGK) (Germany)

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section

1.2.

SECTION 8: Exposure Controls/personal protection

8.1. <u>Control parameters: Occupational exposure limits</u>

Component	UK	EU
Ammonium chloride	STEL: 20 mg/m3	No data available.
	15 min	
	TWA: 10 mg/m3	
	8 hr	

8.2. Exposure controls

Appropriate engineering controls Change contaminated clothing. Wash hands after working

with substance. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Eye/face protection Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or

EN 166 (EU). Safety glasses.

Skin protection Gloves - material: Natural rubber

Nitrile rubber

Neoprene

PVC

Long sleeved clothing

Respiratory protection When workers are facing concentrations above the exposure

limit or if irritation or other symptoms are experienced, they must use a NIOSH/MSHA or European Standard EN

149:2001 approved respirator.

To protect the wearer, respiratory protective equipment must

be the correct fit and be used and maintained properly.

SECTION 9: Physical and Chemical Properties

9.1. <u>Information on basic physical and chemical properties</u>

Appearance White powder

Odour None

pH @20°C with Part B 7.38

Melting point No data available.

Boiling point >250°C

Flash point Not applicable

Self-inflammability Product is not self-igniting.

Danger of explosion Product is not explosive.

Relative density No data available

Water solubility Miscible

Additional property Hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. <u>Chemical stability</u>

Stability Stable under the prescribed storage conditions. Hydroscopic.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous

reactions will occur.

Contact with acids liberates toxic gases.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid

contact with acids, bases, strong oxidising or reducing

agents.

10.5. <u>Incompatible materials</u>

Materials to avoid Strong acids, bases, oxidising and reducing agents. Avoid

contact with other photographic solutions.

10.6. <u>Hazardous decomposition products</u>

Hazardous decomposition products Thermal decomposition or combustion products may include

the following substances: oxides of sulphur, carbon,

ammonium and sodium.

SECTION 11: Toxicological information

11.1. <u>Information on toxicological effects</u>

Toxicological effects This chemical formulation has not been tested for health

effects. Exposure effects listed are based on existing health data for the individual components that comprise the

mixture.

Germ cell mutagenicity The product contains no substances suspected of causing

genetic defects.

Carcinogenicity The product contains no carcinogenic substances.

Reproductive toxicity No data available.

Specific target organ toxicity STOT - single exposure: No data available.

STOT – repeated exposure: No data available.

Acute and chronic health hazards No data available

Acute toxicity LD/LC50 values that are relevant for classification:				
Ammonium chloride				
Oral	LD50	1650 mg/kg (rat)		
Inhalation	LC50	No data available.		
Dermal	LD50	>2,000 mg/kg (rat)		

Skin corrosion/irritation Based on available data; the classification criteria are not

met.

Serious eye damage/eye irritation Based on available data; the classification criteria are not

met.

Respiratory or skin sensitization Based on available data; the classification criteria are not

met.

11.2. Other information

When used and handled according to specifications, the product does not have any harmful effect according to our experience and the information provided to us.

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity – fish LC50, 96 hours: 209 mg/l, Cyprinus carpio (freshwater fish)

Acute toxicity – aquatic invertebrates EC50, 48 hours: 101 mg/l, Daphnia magna (Water flea)

Acute toxicity – algae ErC50, 5 days: 1,300 mg/l, Chlorella vulgaris (Fresh water

algae)

Acute toxicity – bacteria EC50, 30 minutes: 1,310 mg/l, activated sludge

12.2. Persistence and degradability

Persistence and degradabilityThe methods for determining biodegradability are not

applicable to inorganic substances.

12.3. <u>Bioaccumulation</u>

Bioaccumulation No data available. Unlikely as product is soluble in water.

12.4. Mobility in soil

Mobility in soil Product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as

PBT or vPvB.

12.6 Other adverse effects

Additional ecological information None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of residue/unused product Waste is classified as hazardous. Dispose of in accordance

with the local and national regulations on waste and

hazardous waste.

Disposal of packaging Dispose of this container to hazardous or special waste

collection point. Non contaminated packaging can be used for recycling. Empty contaminated packaging thoroughly.

They can be recycled after thorough and proper cleaning

with water.

Waste class 09 01 04 (fixer solutions)

SECTION 14: Transport information

Not regulated for all modes of transportation.

UN Number (ADR/RID, IMDG,	N/A
IATA)	
UN Proper Shipping Name	Not applicable
(ADR/RID, IMDG, IATA)	
Transport Hazard Class(es)	
ADR/RID, IMDG, IATA	None
Packing group (ADR/RID, IMDG,	Not applicable
IATA)	
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to	Not applicable
Annex	
II of MARPOL73/78 and the IBC	
Code	
Transport/Additional Information	Not dangerous according to the above
	specifications.

SECTION 15: Regulatory information

15.1. <u>Safety, health and environmental regulations/legislation specific for the substance or</u>

mixture		•	4
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EU legislation Regulation (EC) No 1907/2006 of the European Parliament

and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Guidance Worksafe Australia NOHSC 2012: Labelling of workplace

substances.

Australian Standard for the Uniform Scheduling of Drugs

and Poisons (SUSDP).

Australian Approved Criteria for Classifying Hazardous Substances (NOHSC 1008). Australian List of Designated

Hazardous Substances (NOHSC 10005).

Australian National Code of Practice for the Preparation of

Material safety Data Sheets (NOHSC 2011)

US State Regulations

State Regulations Comments

No information available.

Inventories

US - TSCA

Ammonium chloride

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

General information Zone Imaging Ltd believe the information and

recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or

warranty of any kind is made with respect to this

information. Use this information only to supplement other

information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of

employees and customers.

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Abbreviations and acronyms ADR: European Agreement concerning the International

Carriage of Dangerous Goods by Road (Accord Européen sur

le Transport des Marchandises Dangereuses par Route)

RID: European Agreement concerning the International

Carriage of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EC: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration at which 50% of the animals will be expected to die.

LD50: Lethal dose at which 50% of the animals will be expected to die.

EC50: Effective concentration of test substance which results in a 50 percent reduction in either algae growth (EbC50) or algae growth rate (ErC50) or Daphina immobilization.

Hazard statements in full

H302 – Harmful if swallowed. Acute tox. 4

H319 – Causes serious eye irritation. Eye dam. 2