

ZONE

IMAGING

Zone Imaging Ltd.

Safety Data Sheet

Eco Zonifix Plus Fixer

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

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

1.1. Product identifier

Product name	Eco Zonifix Plus
Product number	
Container size	500ml, 1 litre, 5 litres

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

Manufacturer/Supplier	Zone Imaging Ltd., Unit 6, 58b Alexandra Road, Enfield, London, EN3 7EH, UK www.zoneimaging-photochemicals.co.uk
Contact person	James Lane
Tel	+4477 6099 6515
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SECTION 2: Hazards identification
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2.1. Classification of the substance or mixture**Product definition:** Mixture**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Not classified for physical or health hazards.

2.2. Label elements**Pictograms** None**Signal word** None**Hazard statements** None**Precautionary statements** See "Prevention" directly below

Prevention

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

Storage **P501:** Dispose of contents/container in accordance with local regulations.

2.3. Other Hazards**Other hazards which do not result in classification** None

SECTION 3: Composition/information on ingredients
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3.1. Mixture of the substances listed below with harmless additions

Substance name	Identifiers	% w/w	Hazards
Ammonium thiosulphate	CAS# 7783-18-8 EC# 231-982-0 REACH# 01-2119537325-41	50 - 60	Not classified
Sodium bisulphite	CAS# 7631-90-5 EC# 231-548-0 REACH# 01-2119552465-36	≥ 1 - < 5	H302

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove the victim to fresh air. If symptoms occur, seek medical advice.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower.
Eye contact	Rinse out eyes immediately with plenty of water for at least 15 minutes. Ensure contaminated water does not enter the eye.
Ingestion	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in Section 11.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use firefighting measures that suit the environment.
Unsuitable extinguishing media	For this substance, no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Specific risks	None, this product is non-flammable nor explosive.
Hazardous combustion products	Thermal decomposition or combustion products may include oxides of ammonium, carbon, sulphur and sodium.

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.

5.3. Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide ventilation. Use appropriate personal protective equipment. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not allow to enter drainage system, surface or ground water. Collect and dispose of spillage as indicated in Section 13. Contaminated surfaces should be cleaned with water.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop the spillage. Dike the spill. For small amounts less than 5l, flush to the sewer with large amounts of water. For larger spills, prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For precautions, see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store tightly closed, away from light and in a cool and dry area. Do not store near acids or heat. Storage advice to ensure the product remains in a useable condition throughout its specified shelf: Store at temperatures above 5°C. Store at temperatures not exceeding 30°C. Do not eat/drink/smoke near storage containers.

Storage class Chemical storage.

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. Control parameters: Occupational exposure limits

SODIUM BSULPHITE

CAS# 7631-90-5

Long-term exposure limit (8-hour TWA): WEL/REL/TLV 5mg/m³

8.2. Exposure controls

Appropriate engineering controls	Change contaminated clothing. Wash hands after working with substance.
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	Latex, rubber, or neoprene waterproof gloves are recommended.
Respiratory protection	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	Very faint ammonia
pH @25°C	6.3
Specific gravity	1.371
Melting point	N/A
Boiling point	>100°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	Fully miscible

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable under the prescribed storage conditions. No stability concerns.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.
Avoid contact with strong acids or bases.

10.5. Incompatible materials

Materials to avoid Strong acids or bases. Avoid contact with other photographic solutions.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include oxides of ammonium, carbon, sulphur and sodium.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 thiosulphate		
Oral	LD50	2,890 mg/kg (rat)
Inhalation	LC50	No data available
Dermal	LD50	No data available
Sodium metabisulphite		
Oral	LD50	1,310 mg/kg (rat)
Inhalation	LC50	>2,000 mg/kg (rat)
Dermal	LD50	No data available

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 sensitisation 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

AMMONIUM THIOSULPHATE

Acute toxicity – fish LC50, 96 hours: 510 mg/l, *Lepomis macrochirus* (Bluegill sunfish)

Acute toxicity – aquatic invertebrates EC50, 21 days: >230 mg/l, *Daphnia magna* (Water flea)

Acute toxicity – algae ErC50, 72 hours: 100 mg/l, *Pseudokirchneriella subcapitata* (green algae)

Acute toxicity – bacteria EC50, 3 hours: >1,000 mg/l, activated sludge

SODIUM METABISULPHITE

Acute toxicity – fish LC50, 96 hours: 32 mg/l, *Lepomis macrochirus* (Bluegill sunfish)

Acute toxicity – aquatic invertebrates EC50, 24 hours: >89 mg/l, *Daphnia magna* (Water flea)

Acute toxicity – algae ErC50, 72 hours: 48 mg/l, *Desmodesmus subspicatus* (green algae)

Acute toxicity – bacteria EC50, 17 hours: 56 mg/l, activated sludge

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulation

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 Discharge into the environment, sewage or groundwater must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of product Must not be disposed together with household waste. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.

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

SECTION 15: Regulatory information

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

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 thiosulphate

Sodium bisulphite

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 Daphnia immobilization.

Hazard statements in full

None.