

ZONE

IMAGING

Zone Imaging Ltd.

Safety Data Sheet

Phenidone 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	Phenidone A
Additional Identification	1-phenyl-3-pyrazolidinone
Product number	5060594641084
Container size	10g

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

Identified uses	Intermediate chemical used in the synthesis of photo-chemicals.
Other uses	None

1.3. Details of the supplier of the safety data sheet

Supplier	Zone Imaging Ltd., Unit 6, 58b Alexandra Road, Enfield, London, EN3 7EH, UK
Tel	+4477 6099 6515
Email	info@zoneimaging-photochemicals.co.uk
Emergency tel	+4477 6099 6515

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: Substance

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

Acute toxicity 4: H302

Aquatic toxicity chronic 2: H412

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. Label elements

Pictograms



Signal word

Warning

Hazard statements

H302 – Harmful if swallowed. Acute tox. 4

H412 – Toxic to aquatic life with long lasting effects. Aq Tox Ch. 2

Precautionary statements

General

Not Applicable

Prevention

P264: Wash hands and equipment thoroughly after handling.

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

P273: Avoid release to the environment.

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

Response

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

P391: Collect spillage.

Disposal

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

Hazardous ingredients

1-phenyl-3-pyrazolidone (Phenidone A)

Annex XVII – Restrictions on the manufacture, placing on

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the market and use of certain
dangerous substances,
mixtures and articles N/A

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	Concentration	Hazards
1-phenyl-3-pyrazolidone (Phenidone A)	CAS# 92-43-3 EC# 202-155-1 REACH# 01-212011875-53	100%	Acute Tox. 4 H302 Aquatic Chr. Tox. 2 H411

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Show this material safety data sheet to the doctor in attendance.

Inhalation After inhalation: fresh air.

Ingestion After swallowing, immediately make victim drink water (two glasses at most). Consult a physician.

Skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Eye contact After eye contact: rinse out with plenty of water. Remove contact lenses.

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

See Section 2.2.

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

Notes for the doctor Provide SDS document. Doctor should treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Carbon dioxide, dry chemical powder, water spray.

Unsuitable extinguishing media Not available

5.2. Special hazards arising from the substance or mixture

Specific risks Combustible. Some vapours are heavier than air and may spread across floors.

Hazardous combustion products Thermal decomposition or combustion products may include carbon and nitrogen oxides and other toxic vapours. Forms explosive mixtures with air upon intense heating.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment Wear protective eyewear, gloves and clothing. Use NIOSH approved respiratory protection/breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Provide adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Inform respective authorities in case product reaches water or sewage system. Do not discharge into drains or watercourses or onto the ground. 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. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container away from light and somewhere dry at room temperature.

Storage class 11: Combustible Solids

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

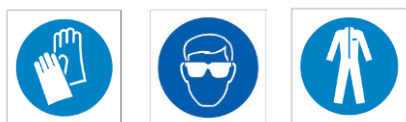
SECTION 8: Exposure Controls/personal protection

8.1. Control parameters: Occupational exposure limits

There are no occupational exposure limits values.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Tightly sealed safety glasses or face shield.

Hand protection

Use protective gloves. The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. Only use chemical-protective gloves with CE-labelling of category III. Avoid contact with used gloves.

Recommended material of gloves: Nitrile rubber.

Recommended minimum thickness of the material: ≥ 0.11 mm

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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Appearance	Fine crystals
Colour	Beige
Odour	No data available.
pH @30°C	4.02
Melting point	119-123°C
Initial boiling point and range	>300°C @ 976.4 hPa
Flash point (closed cup)	218°C
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	1.25 g/cm ³ at 20 °C
Relative density	No data available.
Water solubility	2.59 g/l at 30 °C
Partition coefficient: n-octanol/water	log Pow: 0.012 at 25 °C - Bioaccumulation is not expected.
Autoignition temperature	No data available
Decomposition temperature	No data available
Explosive properties	No data available
Oxidizing properties	None

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

Stability

Stable under the prescribed storage conditions. No stability concerns.

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10.3. Possibility of hazardous reactions

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

Violent reactions possible with: Strong oxidizing agents, strong acids, strong alkalis

10.4. Conditions to avoid

Conditions to avoid Strong heating. Light.

10.5. Incompatible materials

Materials to avoid See 10.3.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include carbon and nitrogen oxides and other toxic vapours. Forms explosive mixtures with air upon intense heating.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Germ cell mutagenicity The substance is not classified as mutagenic.

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 None.

Acute toxicity

LD/LC50 values that are relevant for classification:

1-phenyl-3-pyrazolidone (Phenidone A)

Oral	LD50	300 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalation	LC50	No data available.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The product contains a substance which is toxic to aquatic organisms.

Acute toxicity – fish No data available

Acute toxicity – aquatic invertebrates EC50, 48 hours: 6.25 mg/l, Daphnia magna (Water flea)

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Acute toxicity – algae ErC50, 72 hours: 9.25 mg/l, Chlorella vulgaris (Fresh water algae)

Acute toxicity – bacteria EC50, 5 min: 3.02 mg/l, photobacterium phosphoreum

12.2. Persistence and degradability

Persistence and degradability Aerobic - Exposure time 28 d
Result: 24.06 % -inherently biodegradable.

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	3077
UN Proper Shipping Name (ADR/RID, IMDG, IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-phenyl-3-pyrazolidone)
Transport Hazard Class(es) ADR/RID, IMDG, IATA	9
Packing group (ADR/RID, IMDG, IATA)	III
Environmental hazards	Yes
Special precautions for user	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
Transport/Additional Information ADR/RID/IMDG/IATA	Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

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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).

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Guidance

Workplace Exposure Limits EH40.

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.

Issued by

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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

H302 – Harmful if swallowed. Acute tox. 4

H412 – Toxic to aquatic life with long lasting effects. Aq Tox Ch. 2