Kusuri Products Limited

www.kusuri.co.uk

SAFETY DATA SHEET

MASUIZAI - KOI SEDATE

Compilation date: 06/07/2017
Revision No: 2

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

1.1 Product identifier

Product name: MASUIZAI KOI SEDATE 100ml, 150ml, 250ml, 500ml.

CAS number: 122-99-6

Product code: SED1, SED2, SED3, SED4.

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

Recommended use: Aquatic fish medication for Koi Carp

Not recommended: For any other species

1.3. Details of the supplier of the safety data sheet

Company name: Kusuri Products Limited
12 Wentworth Road
Heathfield Industrial Estate
Newton Abbot
Devon
TQ12 6TL
United Kingdom

Tel: +44 (0)1626 836600

Fax: +44 (0)1626 836700

Email: kay@kusuri.co.uk QM

1.4. Emergency telephone number

Emergency Tel: +44 (0)1626 836600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Eye Irrit. 2: H319; See section 16.

Most important adverse effects: Harmful if swallowed. Slightly irritating to eyes.

Environmental hazards: Not classified.

Classification (67/548/EEC or 1999/45EC): Xn; R22. Xi; R36

Environmental: This product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements: H302: Harmful if swallowed.

H319: Causes serious eye irritation.

Signal word: Warning

EC number: 204-589-7

Hazard pictograms: GHS07: Explanation Mark

Precautionary statements: P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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

P330 Rinse mouth.

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

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

2.3. Other hazards

PBT: This product is not identified as a PBT or vPvB substance according to current EU criteria.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-PHENOXYETHANOL

REACH registration number: 01-2119488943

EU index number: 603-098-00-9

CAS no: 122-99-6

EC number: 204-589-7

Composition comments: The data shown are in accordance with the latest EC directives.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing before reuse.

Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse. Eye wash facilities and emergency shower must be available when handling this product.

Ingestion: Get medical attention. Do not induce vomiting unless under the direction of medical personnel. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse thoroughly with water. Give plenty of water to drink.

Inhalation: Move affected person to fresh air at once. Get medical attention.

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

Eye contact: Irritation of eyes and mucous membranes.

Ingestion: May cause stomach pain or vomiting.

Inhalation: There may be irritation of the throat.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Harmful product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

Immediate / special treatment: No specific recommendations. If in doubt get medical attention promptly.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Thermal decomposition products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear positive-pressure self contained breathing apparatus (SCBA) and appropriate protective clothing.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate area. Keep unnecessary and unprotected personnel away from spillage. Wear protective clothing as described in section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environment Agency or other appropriate body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. For waste disposal, see Section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin, eyes, and clothing. Wash skin thoroughly after handling. Keep container tightly closed. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety Data Sheet. Keep the product in original container.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in closed container at temperatures between 15˚C and 25˚C. Store in tightly closed, original container in a well ventilated place.

7.3. Specific end use(s)

Specific end use(s): Aquatic fish medication for Koi Carp.

Caution: Do not exceed the recommended dosage on label.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: N/A

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. Gas Filter type A EN 136/140/145/143/149 (EU)

Hand protection: Protective Nitrile or Latex gloves. EN 374 (EU)

Eye protection: Safety glasses. Ensure eye bath is to hand. EN 166 (EU)

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Mild

pH: pH (concentrated solution): 7

Melting point: 9.1˚C

Initial boiling point and range: 240 - 285˚C

Flash point/range: 126˚C CC (Closed cup)

Evaporation rate: <0.01 (diethyl ether = 1)

Evaporation factor: No information available.

Flammability (solid, gas): No information available.

Upper/lower flammability or explosive limits:	Lower flammable/explosive limit: 0.95 %
Other flammability:	No information available.
Vapour pressure:	0.01 hPa@20˚C
Vapour density:	4.77 @25˚C
Relative density:	1.109 @ 25˚C
Bulk density:	No information available.
Solubility (ies):	25 g/l @ 25˚C Slightly soluble in water.
Partition coefficient:	Log Pow: 1.2
Auto-ignition temperature:	475˚C
Decomposition Temperature:	No information available.
Viscosity:	21.5mPa s @ 25˚C
Explosive properties:	Not considered to be explosive.
Explosive under the influence of a flame:	No information available.
Oxidising properties:	No information available.

9.2. Other information

Refractive index:	No information available.
Particle size:	No information available.
Molecular weight:	138.2
Volatility:	No information available.
Saturation concentration:	No information available.
Critical temperature:	No information available.
Volatile organic compound:	No information available.
Minimum Ignition Temperature:	>200

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions: Will not polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Haz. decomp. products: Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Aldehydes. Ketones.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
2-Phenoxyethanol		Based on test data
Acute toxicity - oral		
Oral toxicity	LD_{50} (oral, rat)	1,850.0 mg/kg
Acute toxicity - dermal		
Dermal – inhalation toxicity	LD_{50} (dermal, rabbit)	>5000 mg/kg
Acute toxicity - inhalation		
Inhalation	LC_{50} (inhalation, rat)	>1 mg/m^3
Skin corrosion/irritation		
Skin corrosion/irritation	May be slightly irritating to skin.	
Serious eye damage/irritation		
Serious eye damage/irritation	May cause severe eye irritation.	
Respiratory sensitisation		
Respiratory sensitisation	No information available.	
Skin sensitisation		
Skin sensitisation	Not sensitising.	
Germ cell mutagenicity		
Germ cell mutagenicity	Negative.	
Carcinogenicity		
Carcinogenicity	No information available.	
Reproductive toxicity		
Reproductive toxicity - fertility	No information available.	
Specific target organ toxicity – single exposure		
STOT – single exposure	No information available.	
Specific target organ toxicity – repeated exposure		
STOT – repeated exposure	NOAEL (Oral, rat)	700 mg/kg,
Aspiration hazard		
Aspiration hazard	No information available.	
Inhalation	May cause respiratory system irritation.	

Ingestion	Harmful if swallowed.	
Skin contact	Slightly irritating.	
Eye contact	Irritating to the eyes.	

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity: The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Name	Route	Basis
Acute toxicity - fish		
2 - Phenoxyethanol	LC_{50} (fish) Pimephales promelas (Fat-head Minnow)	344 mg/l (96 h)
Acute toxicity – aquatic invertabrates		
2 - Phenoxyethanol	EC_{50} (aquatic invertebrates) Daphnia magna	500mg/l (48 h)
Acute toxicity – aquatic plants		
2 - Phenoxyethanol	EC_{50} (aquatic plants) Scenedesmus subspicatus	500mg/l (72 h)

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: BCF: 0.35,

Partition coefficient: Log Pow: 1.2

12.4. Mobility in soil

PBT: The product has poor water-solubility.

Surface tension: 70.7 mN/m @ 19.9˚C

12.5. Results of PBT and vPvB assessment

PBT: This product is not identified as a PBT substance according to current EU criteria.

12.6. Other adverse effects

Other adverse effects: Not determined.

Section 13: Disposal considerations

13.1. Waste treatment methods

General information: Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

Disposal operations: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: No information required.

14.2. UN proper shipping name

Shipping name: No information required.

14.3. Transport hazard class(es)

Transport class: No information required.

14.4. Packing group

Packing group: No information required.

14.5. Environmental hazards

Environmentally hazardous: No **Marine pollutant:** No

14.6. Special precautions for user

Special precautions: No information required.

Tunnel code: No information required.

Transport category: No information required.

General: This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Section 15: Regulatory information

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

Manufacturers licence No: SAM0002 under VMD regulations.

COSHH: Control of Substances Hazardous to Health (COSHH) Regulations 2002

HSE: Health and Safety at Work Act 1974.

H.S.E. Guidance Note EH40 (Occupational Exposure Limits).

Manual Handling Operations Regulations 1992

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 Regulation (EU) No 2015/830 of 28 May 2015

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out.

Inventories

EU – EINECS/ELINCS: All ingredients are listed or exempt.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Abbreviations and acronyms: ATE: Acute Toxicity Estimate.

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

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient. LC_{50}:

Lethal Concentration to 50 % of a test population.

LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

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

vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC_{50}: 50% of maximal Effective Concentration.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

EL50: Exposure Limit 50

hPa: Hectopascal LL50: Lethal Loading fifty

OECD: Organisation for Economic Co-operation and Development

POW: Octanol-water partition coefficient

SCBA: self-contained breathing apparatus

STP: Sewage Treatment Plant

VOC: Volatile Organic Compound

Classification abbreviations and acronyms:	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data:	Supplier's information
Revision comments:	06/07/2017
Revision:	2
Supersedes date:	28/05/2015
SDS number:	0000008
Version:	2
SDS status:	Approved.
Signature:	Kay Barber QM
Risk phrases in full:	R22 Harmful if swallowed.
	R36 Irritating to eyes.
Hazard statements in full:	H302 harmful if swallowed.
	H319 Causes serious eye irritation.