# SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

MEPRON SUSPENSION

of the mixture

Registration number

MEPRON SUSPENSION 750 MG/5 ML \* WELLVONE SUSPENSION 750 MG/5 ML \* WELLVONE **Synonyms** 

SUSPENSAO 150 MG/ ML \* SAMTIREL \* ATOVAQUONE SUSPENSION 750MG/5ML \*

ATOVAQUONE, FORMULATED PRODUCT

Issue date 27-June-2014

Version number

27-June-2014 **Revision date** 18-June-2014 Supersedes date

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

**Identified uses** Medicinal Product

> This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant

to medicinal use of the product. In this instance patients should consult prescribing

information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate

safety data sheet for each ingredient.

Uses advised against No other uses are advised.

### 1.3. Details of the supplier of the safety data sheet

GlaxoSmithKline UK 980 Great West Road

Brentford, Middlesex TW8 9GS UK

UK General Information (normal business hours): +44-20-8047-5000

Email Address: msds@gsk.com Website: www.gsk.com

1.4. Emergency telephone

number

TRANSPORT EMERGENCIES::

UK In-country toll call: +(44)-870-8200418 International toll call: +1 703 527 3887

available 24 hrs/7 days; multi-language response

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

# Classification according to Regulation (EC) No 1272/2008 as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

## 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Supplemental label information None.

2.3. Other hazards Expected to be non-combustible.

See section 11 for additional information on health hazards.

# **SECTION 3: Composition/information on ingredients**

3.2. Mixtures

Material name: MEPRON SUSPENSION

**General information** 

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

ATOVAQUONE 15 95233-18-4 - - M=100

Classification: DSD: N;R50-53

CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410

Benzyl alcohol 1 100-51-6 - 603-057-00-5

202-859-9

Classification: DSD: Xn;R20/22, Xi;R36

CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Acute Tox. 4;H332

Other components below reportable levels 84.0

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

### **SECTION 4: First aid measures**

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and

delayed

The following adverse effects have been noted with therapeutic use of this material: headache;

nausea; insomnia; yellow discolouration of the skin; diarrhoea; rash; vomiting.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

General fire hazards Expected to be non-combustible.

5.1. Extinguishing media

Suitable extinguishing

g

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

media

viater rog. I dam. Dry enemical powder. Darbon dioxide (002)

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

None known.

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

**6.2. Environmental precautions** Prevent further leakage or spillage if safe to do so.

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SDS UK

0./40

### 6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged exposure. Use care in handling/storage.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local/regional/national/international regulation. Store away from

incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Medicinal Product

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### Occupational exposure limits

G	S	K

Components	Туре	Value	
ATOVAQUONE (CAS 95233-18-4)	8 HR TWA	200 mcg/m3	
,	OHC	2	
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Recommended monitoring procedures	Follow standard monitoring procedures	3.	

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**General information** 

Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection

If contact is likely, safety glasses with side shields are recommended. (eg. EN 166)

Skin protection

- Hand protection

For prolonged or repeated skin contact use suitable protective gloves. The selection of gloves for a specific activity must be based on the material's properties and on possible permeation and degradation that may occur under the circumstances of use. Care must be exercised if insufficient data are available and further guidance should be sought from your local EHS department. Potential allergic reactions can occur with certain glove materials (e.g. Latex) and therefore these should be avoided. Glove selection must take into account any solvents and other hazards present. Select suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min permeation time).

- Other

Wear suitable protective clothing. (EN 14605 for splashes, EN ISO 13982 for dust)

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Where breathable aerosols/dust are formed, use suitable combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (eg. EN 14387).

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** 

Hazard guidance and control recommendations Not available.

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# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state
Form
Suspension.
Colour
Not available.
Odour
Not available.
Odour threshold
PH
Not available.
Melting point/freezing point
Initial boiling point and boiling
Not available.
Not available.
Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Solubility (other) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Not available.

Not available.

Not available.

Not available.

Not available.

**9.2. Other information** No relevant additional information available.

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**Material is stable under normal conditions

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**Contact with incompatible materials.

10.5. Incompatible materials None known.

**10.6. Hazardous** Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

decomposition products

#### **SECTION 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects. It is an agent

intended for the treatment of parasitic infection. Adverse effects of overexposure might include: headache; nausea; insomnia; yellow discolouration of the skin; diarrhoea; rash; vomiting.

# Information on likely routes of exposure

**Ingestion** Based on available data, the classification criteria are not met.

**Inhalation** Due to lack of data the classification is not possible.

Skin contact

Based on available data, the classification criteria are not met.

Eve contact

Based on available data, the classification criteria are not met.

**Symptoms** The following adverse effects have been noted with therapeutic use of this material: headache;

nausea; insomnia; yellow discolouration of the skin; diarrhoea; rash; vomiting.

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sea, insomina, yellow discolodration of the skin, diarrioea, rash, vomiting.

Components **Test results** Species ATOVAQUONE (CAS 95233-18-4) Acute Oral LD50 Rat > 2000 mg/kg and mouse Chronic Oral LD Rat > 500 mg/kg/day 1 Year NOAEL Dog > 500 mg/kg/day 1 Year Subacute Oral LD Rat > 500 mg/kg/day 28-day Benzyl alcohol (CAS 100-51-6) Acute Inhalation LC50 Rat 1000 ppm Oral LD50 Rat 1230 mg/kg \* Estimates for product may be based on additional component data not shown. Based on available data, the classification criteria are not met. Skin corrosion/irritation Corrosivity **ATOVAQUONE OECD 404** Result: negative Species: Rabbit Irritation Corrosion - Skin: P.I.I. value **ATOVAQUONE** 0 Serious eye damage/eye Based on available data, the classification criteria are not met. irritation Eve **ATOVAQUONE REET** Result: Negative; not likely to be a severe irritant Eye / Kay and Calandra class - Intact **ATOVAQUONE** 3 OECD 405 Result: Minimal irritant Species: Rabbit Respiratory sensitisation Due to lack of data the classification is not possible. Skin sensitisation Based on available data, the classification criteria are not met. Sensitisation **ATOVAQUONE** SAR / QSAR, DEREK, Lhasa, UK Result: positive Based on available data, the classification criteria are not met. Germ cell mutagenicity Mutagenicity **ATOVAQUONE** Ames Result: negative Chromosomal Aberration Assay In Vitro, human lymphocytes Result: negative Mouse Lymphoma Cell Assay Result: negative Carcinogenicity Based on available data, the classification criteria are not met. **ATOVAQUONE** 24 Month Result: negative Species: Rat 24 Month, Species specific - enzyme induction Result: positive Species: Mouse Organ: liver Based on available data, the classification criteria are not met. Reproductive toxicity Reproductivity **ATOVAQUONE** Pre- and Post-natal development Result: No effect

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SDSTIK

Reproductivity **ATOVAQUONE** 

Reproduction/Fertility Study

Result: negative Species: Rat

Specific target organ toxicity -

single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

**Aspiration hazard** 

Due to lack of data the classification is not possible.

Mixture versus substance

information

Not available.

It is an agent intended for the treatment of parasitic infection. Adverse effects of overexposure Other information

might include: headache; nausea; insomnia; yellow discolouration of the skin; diarrhoea; rash;

vomiting.

# **SECTION 12: Ecological information**

12.1. Toxicity	Contains a substance which causes risk of hazardous effects to the environment.
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Components		Species	Test results
ATOVAQUONE (CAS 95233	3-18-4)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.0035 mg/l, 48 hours Static test, OECD 202
	NOEC	Water flea (Daphnia magna)	0.0018 mg/l, 48 hours Static test
Microtox	MIC	Aspergillus flavus	> 11 mcg/l
		Azotobacter chroococcum	> 11 mcg/l
		Chaetomium globosum	> 11 mcg/l
		Nostoc sp.	> 11 mcg/l
Other	MIC	Pseudomonas acidovorans	> 11 mcg/l
Chronic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.47 mcg/l, 8 days 7 day static renewal, OPPTS 850.1300
	LOEC	Water flea (Ceriodaphnia dubia)	0.16 mcg/l, 8 days
	NOEC	Water flea (Ceriodaphnia dubia)	0.083 mcg/l, 8 days
Terrestrial			
Acute			
Earthworm	EC50	Manure worm (Eisenia foetida)	> 1000 mg/kg, 14 days , OECD 207
	NOEC	Manure worm (Eisenia foetida)	1000 mg/kg, 14 days Nominal
Benzyl alcohol (CAS 100-51	-6)		
Aquatic			
Acute	1050	Me a dead and the contract of the contract of	0400
Activated Sludge Respiration	IC50	Mixed industrial/residential sludge.	2100 mg/l, 49 hours
Algae	EC50	Green algae (Scenedesmus quadricauda)	640 mg/l, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	360 mg/l, 48 hours
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	10 mg/l, 96 hours Static test
		Fathead minnow (Adult Pimephales promelas)	460 mg/l, 96 hours Static test
Microtox	EC50	Microtox	63.7 mg/l, 15 minutes

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability

No data is available on the degradability of this product.

**Photolysis** 

Half-life (Photolysis-aqueous)

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**ATOVAQUONE** 2.63 Hours Measured

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**Photolysis** 

Half-life (Photolysis-atmospheric)

Benzyl alcohol 2 Days Estimated

Biodegradability

Percent degradation (Aerobic biodegradation-ready)

Benzyl alcohol > 90 %, 30 days Closed Bottle test, Activated sludge

Percent degradation (Aerobic biodegradation-soil)

ATOVAQUONE 75 %, 1 Day, Soil

Percent degradation (Anaerobic biodegradation)

Benzyl alcohol 100 %, 14 days Serum Bottle, Anaerobic sludge

**12.3. Bioaccumulative potential** No data available for this product.

Partition coefficient n-octanol/water (log Kow)

ATOVAQUONE 5.31
Benzyl alcohol 1.1

**Bioconcentration factor (BCF)** 

Benzyl alcohol 4 Estimated

12.4. Mobility in soil

Adsorption

Sludge/biomass distribution coefficient - log Kd

ATOVAQUONE 3.91 - 4.31 Calculated

Soil/sediment sorption - log Koc

ATOVAQUONE 4.18 - 4.58 Measured Benzyl alcohol < 0.7 Measured

Mobility in general

Volatility

Henry's law

Benzyl alcohol 0 atm m<sup>3</sup>/mol, 25 C Estimated

12.5. Results of PBT

and vPvB assessment

Not available.

**12.6. Other adverse effects** Not available.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code**The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

egulations.

**SECTION 14: Transport information** 

**ADR** 

**14.1. UN number** UN3082

14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (ATOVAQUONE, FORMULATED

name PRODUCT)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Hazard No. (ADR) 90
Tunnel code E
14.4. Packing group III
14.5. Environmental hazards No.

**14.6. Special precautions** May be able to ship as an Excepted or Limited Quantity.

for user May not be subject to ADR; See SP 601.

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Additional information:

LTD QTY index LQ7

Special Provisions 274, 335, 601

**IATA** 

**14.1. UN number** UN3082

14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (ATOVAQUONE, FORMULATED

ame PRODUCT)

**14.3. Transport hazard** 9

class(es)

Subsidiary class(es) - 14.4. Packing group

Labels required Not available.

**14.5. Environmental hazards** No. **ERG Code** 9L

**14.6. Special precautions** May be able to ship as an Excepted or Limited Quantity.

for user ID 8000, Consumer Commodity, may apply. See Packing Instruction Y963.

Other information

Cargo aircraft only Allowed.

**Additional Information:** 

Passenger & cargo Allowed.
Packaging Instruction 964
Pkg Inst cargo only 964
Pkg Inst pasenger & cargo Y964

LQ

SP See 44 A97,A158
Max net qty pkg 450 L
Max net qty pkg cargo only 450 L
Max net qty pkg LQ 30 kg G

**IMDG** 

**14.1. UN number** UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ATOVAQUONE,

name FORMULATED PRODUCT)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards
Marine pollutant Yes
EmS F-A

**14.6. Special precautions** May be able to ship as an Excepted or Limited Quantity.

for user

May be able to ship as an Excepted or Limited Quantity.

ID 8000, Consumer Commodity, may apply. See Packing Instruction Y963.

14.7. Transport in bulk MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine

according to Annex II of environment. These materials may not be transported in bulk.

MARPOL73/78 and the IBC Code

ADR; IATA; IMDG



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## Marine pollutant



# **SECTION 15: Regulatory information**

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

**EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

# Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work BENZYL ALCOHOL (CAS 100-51-6)

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Not available.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

## **SECTION 16: Other information**

List of abbreviations Not available.

**References** GSK Hazard Determination

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Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R53 May cause long term adverse effects in the aquatic environment.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Product and Company Identification: Synonyms

SECTION 16: Other information: References

**Training information** Follow training instructions when handling this material.

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

**Revision information** 

Disclaimer

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