SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

of the mixture

ELTROXIN TABLETS

Registration number

ELTROXIN TABLETS 50 MCG * ELTROXIN TABLETS 100 MCG * DEXNON COMPRIMIDOS * **Synonyms**

OROXINE TABLETS * THEVIER TABLETTEN * LEVOTHYROXINE SODIUM, FORMULATED

PRODUCT

Issue date 30-October-2014

Version number

30-October-2014 **Revision 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.

Caution - Pharmaceutical agent. See section 11 for additional information on health hazards. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name			%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
MICROCRYSTALLINE CELLULOSE		OSE	SE < 95	9004-34-6 232-674-9	-	-	
Classification:	DSD:	-					
	CLP:	-					
Starch			< 5	9005-25-8 232-679-6	-	-	
Classification:	DSD:	-					
	CLP:	-					
MAGNESIUM STEARATE		< 1	557-04-0 209-150-3	-	-		
Classification:	DSD:	-					
	CLP:	-					
Talc			< 1	14807-96-6 238-877-9	-	-	
Classification:	DSD:	-					
	CLP:	-					
SODIUM LEVOTHYROXINE PENTAHYDRATE			<= 0.02	6106-07-6 -	-	-	
Classification:	DSD:	Muta. Cat. 3;R68, Repr. Cat. 1;R61, T;R39/25, Xn;R20/21/22					
	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Repr. 2;H361, STOT SE 1;H370, STOT RE 1;H372					

Other components below reportable levels < 1

List of abbreviations and symbols that may be used above

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. If breathing is difficult, trained personnel should give oxygen. Call a physician if

symptoms develop or persist. Under normal conditions of intended use, this material is not

expected to be an inhalation hazard.

Skin contact Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

IngestionIf swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large amount does occur, call a poison control centre immediately. Do not induce vomiting without

advice from poison control center.

4.2. Most important symptoms and effects, both acute and

delayed

None known.

The following adverse effects have been noted with therapeutic use of this material: headache; flushing; fever; sweating; weight loss; restlessness; increased heart rate; menstrual irregularities.

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

No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information centre.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

None known.

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.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8.

For emergency responders

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

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or

confined areas. Following product recovery, flush area with water.

Avoid discharge into drains, water courses or onto the ground.

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. 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

GSK			
Components	Туре	Value	Note
MAGNESIUM STEARATE (CAS 557-04-0)	OHC	1	
MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)	OHC	1	
SODIUM LEVOTHYROXINE PENTAHYDRATE (CAS 6106-07-6)	8 HR TWA	0.2 mcg/m3	
,	OHC	5	skin
		5	Reproductive hazard
Ireland. Occupational Exposure Limits			
Components	Туре	Value	Form
MAGNESIUM STEARATE (CAS 557-04-0)	TWA	10 mg/m3	
MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)	STEL	20 mg/m3	Total inhalable dust.
,	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.

Material name: ELTROXIN TABLETS

SDS IRELAND

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Ireland. Occupational Exposure Limits Form Value Components **Type** Starch (CAS 9005-25-8) **TWA** 4 mg/m3 Respirable dust. 10 mg/m3 Total inhalable dust. 10 mg/m3 Total inhalable dust. **TWA** Talc (CAS 14807-96-6) 0.8 mg/m3 Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

Exposure guidelines

8.2. Exposure controls

Appropriate engineering

controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment. Follow all local regulations if

personal protective equipment (PPE) is used in the workplace.

Not normally needed. If contact is likely, safety glasses with side shields are recommended. (e.g. Eye/face protection

EN 166).

Skin protection

The choice of an appropriate glove does not only depend on its material but also on other quality - Hand protection

features and is different from one producer to the other. 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 as protection against splashing or contamination. (EN 14605 for

splashes, EN ISO 13982 for dust).

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

> 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.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. New or expectant mothers might be at greater risk from overexposure. Risk assessments must take this into consideration. Female employees anticipating pregnancy or with a confirmed pregnancy must be encouraged to notify an occupational health professional or their line manager. This will act as the trigger for individual

re-assessment of the employee's work practices.

Environmental exposure controls

Hazard guidance and control recommendations Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid. Form Tablet Colour Not available. Not available. Odour **Odour threshold** Not available. Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available. range

Not available. Flash point **Evaporation rate** Not available.

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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

Oxidizing properties

Not available.

Not available.

Not available.

Not available.

9.2. Other informationNo 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 avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. HazardousNone known. Irritating and/or toxic fumes and gases may be emitted upon the product's

decomposition products decomposition.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Health injuries are not known or expected under normal use. Dust or powder may irritate the skin.

Pharmacological effects may occur following skin absorption.

Eye contact Health injuries are not known or expected under normal use. Dust or powder may irritate eye

tissue.

Ingestion Health injuries are not known or expected under normal use. May be harmful if swallowed.

However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms None known.

The following adverse effects have been noted with therapeutic use of this material: headache; flushing; fever; sweating; weight loss; restlessness; increased heart rate; menstrual irregularities.

11.1. Information on toxicological effects

Acute toxicity Health injuries are not known or expected under normal use. May be harmful if swallowed.

Components Species Test results

MAGNESIUM STEARATE (CAS 557-04-0)

Acute

Oral

LD50 Rat > 2000 mg/kg

MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Components Species Test results

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Irritation Corrosion - Skin: P.I.I. value

MAGNESIUM STEARATE 0

Serious eye damage/eye

Health injuries are not known or expected under normal use. Dust or powder may irritate eye

irritation tissue.

Eye / Kay and Calandra class - Intact

MAGNESIUM STEARATE

Recovery Period: 2 days

Respiratory sensitisation Not available.

Skin sensitisationHealth injuries are not known or expected under normal use.Germ cell mutagenicityHealth injuries are not known or expected under normal use.CarcinogenicityHealth injuries are not known or expected under normal use.

Reproductive toxicity Health injuries are not known or expected under normal use. Contains components which have

been classified as: Possible risk of toxicity in developing human offspring.

Reproductivity

SODIUM LEVOTHYROXINE PENTAHYDRATE Embryo-foetal development

Result: Cranial malformations

Species: Mouse

Embryo-foetal development Result: Hormonal effects Species: Rabbit

Embryo-foetal development Result: Urogenital abnormalities

Species: Rat

Specific target organ toxicity - \(\)

May cause damage to organs by ingestion.

single exposure

SODIUM LEVOTHYROXINE PENTAHYDRATE Clinical use

Species: Human

Organ: cardiovascular system; central nervous system

Specific target organ toxicity -

repeated exposure

See effects of single exposure.

Aspiration hazard
Mixture versus substance

information

No information available.

Other information Caution - Pharmaceutical agent. Occupational exposure to the substance or mixture may cause

adverse effects.

Not available.

SECTION 12: Ecological information

12.1. Toxicity Not expected to be harmful to aquatic organisms.

Components Species Test results

MAGNESIUM STEARATE (CAS 557-04-0)

Aquatic

Acute

Fish EC50 Orange-red killfish (Adult Oryzias 130 mg/l, 96 hours

latipes)

SODIUM LEVOTHYROXINE PENTAHYDRATE (CAS 6106-07-6)

Chronic

NOEC 0.16 μ g/l, 28 days , Rana rugosa

Talc (CAS 14807-96-6)

Aquatic

Acute

Fish EC50 Zebra fish (Adult Brachydanio rerio) > 100 g/l, 24 hours Static renewal test

12.2. Persistence and

degradability

^{*} Estimates for product may be based on additional component data not shown.

^{*} Estimates for product may be based on additional component data not shown.

Photolysis

Half-life (Photolysis-atmospheric)

MAGNESIUM STEARATE 17 Hours Estimated

UV/visible spectrum wavelength

MAGNESIUM STEARATE 210 nm

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

MAGNESIUM STEARATE 77 %, 28 days BOD

Percent degradation (Aerobic biodegradation-ready)

MAGNESIUM STEARATE 95 %, 22 days Sturm test

Percent degradation (Aerobic biodegradation-soil)

MAGNESIUM STEARATE 50 %, 13 days

12.3. Bioaccumulative potential

Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF)

MAGNESIUM STEARATE > 9999 Estimated

12.4. Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

5.86 Estimated MAGNESIUM STEARATE

Mobility in general Not available. Not available. 12.5. Results of PBT

and vPvB assessment

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). Avoid discharge into water courses or onto the ground.

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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. Do not

discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable

regulations.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk

MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.

according to Annex II of

MARPOL73/78 and the IBC Code

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

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

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(10) 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

Not listed.

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

work

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

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

Follow national regulation for work with chemical agents.

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**

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R39/25 Toxic: danger of very serious irreversible effects if swallowed.

R61 May cause harm to the unborn child. R68 Possible risk of irreversible effects.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

Material name: ELTROXIN TABLETS

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Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Regulatory Information: United States

GHS: Classification

Training information

Disclaimer

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.