

# 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** RETIGABINE IR TABLET

**Registration number** -

**Synonyms**

POTIGA \* TROBALT \* POTIGA TABLETS (50 MG, 100 MG, 200 MG, 300 MG , 400 MG) \* TROBALT TABLETS (50 MG, 100 MG, 200 MG, 300 MG , 400 MG) \* EZOGABINE IMMEDIATE RELEASE TABLETS \* RETIGABINE IMMEDIATE RELEASE TABLETS \* RETIGABINE IMMEDIATE RELEASE TABLETS (CONTAINING 60% - 63% RETIGABINE) \* RETIGABINE, FORMULATED PRODUCT

**Issue date** 30-October-2013

**Version number** 06

**Revision date** 30-October-2013

**Supersedes date** 28-October-2013

### 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](mailto:msds@gsk.com)

Website: [www.gsk.com](http://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** Not applicable.

**2.3. Other hazards** Caution - Pharmaceutical agent.

See section 11 for additional information on health hazards.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
RETIGABINE	60.0 - 63.0	150812-12-7	-	-	-
<b>Classification:</b>	<b>DSD:</b>	T;R23/25, N;R50/53			
	<b>CLP:</b>	Acute Tox. 3;H301, Acute Tox. 3;H331, Aquatic Acute 1;H400, Aquatic Chronic 1;H410			

Other components below reportable levels >35.0

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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

### 4.1. Description of first aid measures

#### Inhalation

No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

#### Skin contact

Remove and isolate contaminated clothing and shoes.

#### Eye contact

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

#### Ingestion

Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

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

The following adverse effects have been noted with therapeutic use of this material: dizziness; somnolence; fatigue; weakness; memory effects; headache; dyspeptic symptoms; nausea; diarrhoea; constipation; abnormal nervous system sensations; blurred vision; vertigo; tremor; incoordination; mental impairment; anxiety; malaise; hallucinations; nervousness; anaemia; irregular heartbeat.

### 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 fog. 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

In the event of fire, cool tanks with water spray.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

#### For emergency responders

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

### 6.2. Environmental precautions

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

### 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.

**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**

Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

**7.2. Conditions for safe storage, including any incompatibilities**

Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the MSDS).

**7.3. Specific end use(s)**

Medicinal Product

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

GSK Components	Type	Value	Note
RETIGABINE (CAS 150812-12-7)	8 HR TWA	2000 mcg/m <sup>3</sup>	Skin
	OHC	1	
	Short Term Excursion	5000 mcg/m <sup>3</sup>	

**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.

**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. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.

**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. Follow all local regulations if personal protective equipment (PPE) is used in the workplace.

**Eye/face protection**

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

**Skin protection****- Hand protection**

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present. With respect to the above precautions select suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min permeation time).

**- Other**

(EN 14605 for splashes, EN ISO 13982 for dust)

**Respiratory protection**

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**

Keep away from food and drink. 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. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.

**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.

<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	No relevant additional information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Fluorine.
<b>10.6. Hazardous decomposition products</b>	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

## SECTION 11: Toxicological information

<b>General information</b>	Caution - Pharmaceutical agent. Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Toxic if swallowed.
<b>Inhalation</b>	Prolonged inhalation may be harmful. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Health injuries are not known or expected under normal use.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Symptoms</b>	The following adverse effects have been noted with therapeutic use of this material: dizziness; fatigue; weakness; memory effects; headache; dyspeptic symptoms; nausea; diarrhoea; constipation; abnormal nervous system sensations; blurred vision; vertigo; tremor; incoordination; mental impairment; anxiety; malaise; hallucinations; nervousness; anaemia; weight gain; swelling; irregular heartbeat.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Toxic if swallowed.
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Components	Species	Test results
RETIGABINE (CAS 150812-12-7)		
<b>Acute</b>		
Oral		
LD	Rat	100 mg/kg
<b>Chronic</b>		
Oral		
NOAEL	Rat	5.1 mg/kg/day, 90-day
<b>Subchronic</b>		
Oral		
NOAEL	Dog	< 4.64 mg/kg/day, 52 weeks
		3 mg/kg/day, 13 weeks
	Rat	17.8 mg/kg/day, 26 weeks
		10 mg/kg/day, 13 weeks
* Estimates for product may be based on additional component data not shown.		
<b>Skin corrosion/irritation</b>	Health injuries are not known or expected under normal use.	
<b>Corrosivity</b>		
RETIGABINE		Result: Non-irritant Species: Rabbit
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Eye</b>		
RETIGABINE		Reconstituted Human Corneal Epithelium (HCE) Result: Negative; not likely to be a severe irritant
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.	
<b>Sensitisation</b>		
RETIGABINE		Buehler assay Result: negative
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>		
<b>Mutagenicity</b>		
RETIGABINE		Rat UDS assay Result: negative bacterial mutation assay (Ames) Result: negative human peripheral lymphocyte test (chromosome aberration) Result: positive in vitro UDS assay Result: negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: negative mouse micronucleus assay Result: negative
<b>Carcinogenicity</b>		
RETIGABINE		ICH S1B Result: negative Species: Rat Test Duration: 2 years Neonatal, Dose day 8 and day 15 Result: negative Species: Mouse Observation Period: 1 years
<b>Reproductive toxicity</b>	Contains no ingredient listed as toxic to reproduction	
<b>Reproductive toxicity</b>		
<b>Reproductivity</b>		
RETIGABINE		4.64 - 46.4 mg/kg/day Fertility and general reproductive performance Result: negative Species: Rat

**Specific target organ toxicity - single exposure**

**Specific target organ toxicity - repeated exposure**

**Aspiration hazard** Not likely, due to the form of the product.

**Mixture versus substance information**

**Other information**

## SECTION 12: Ecological information

### 12.1. Toxicity

No information is available about the potential of this product to produce adverse environmental effects. Contains a substance which causes risk of hazardous effects to the environment.

Components	Species	Test results
RETIGABINE (CAS 150812-12-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Activated Sludge Respiration	IC50	Residential sludge > 100 mg/l, 3 hours, OECD 209
	NOEC	Residential sludge 100 mg/l, 3 hours
Algae	EC50	Green algae (Pseudokirchnereilla subcapitata) 0.13 mg/l, 72 hours, Measured, OECD 201
	NOEC	Green algae (Pseudokirchnereilla subcapitata) 0.037 mg/l, 72 hours
<i>Chronic</i>		
Crustacea	LOEC	Water flea (Daphnia magna) 3.1 mg/l, 21 days, Measured, OECD 211
	NOEC	Water flea (Daphnia magna) 0.9 mg/l, 21 days
Fish	Growth test	Fathead minnow (Juvenile Pimephales promelas) 0.1 mg/l, 28 days, Measured, OECD 210
	LOEC	Fathead minnow (Juvenile Pimephales promelas) 0.032 mg/l, 28 days
	Growth test	Fathead minnow (Juvenile Pimephales promelas) 0.032 mg/l, 28 days
	NOEC	
Other	LOEC	Chironomid (Chironomus riparius) 100 mg/l, 28 days, Measured, OECD 218
	NOEC	Chironomid (Chironomus riparius) 32 mg/l, 28 days

\* Estimates for product may be based on additional component data not shown.

### 12.2. Persistence and degradability

#### Persistence and degradability

##### Photolysis

##### UV/visible spectrum wavelength

RETIGABINE 304 nm Measured, pH 1-13

##### Biodegradability

##### Percent degradation (Aerobic biodegradation-inherent)

RETIGABINE 5 - 10 % , 99 days, Aquatic-sediment, OECD 308

##### Percent degradation (Aerobic biodegradation-ready)

RETIGABINE < 5 % , 28 days, BOD, OECD 301F

### 12.3. Bioaccumulative potential

#### Partition coefficient

#### n-octanol/water (log Kow)

RETIGABINE 2.18 (Measured).

### 12.4. Mobility in soil

#### Adsorption

#### Soil/sediment sorption - log Kd

RETIGABINE 1.3 - 2.2 Measured

#### Mobility in general

#### Distribution

#### Octanol/water distribution coefficient log DOW

RETIGABINE 2.1 Measured., pH 5

2.2 Measured., pH 7

2.2 Measured., pH 9

**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. 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. 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 regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

**General** IMDG Regulated Marine Pollutant.

**ADR**

**14.1. UN number** UN3249

**14.2. UN proper shipping name** Medicine, solid, toxic, n.o.s. (RETIGABINE IMMEDIATE RELEASE TABLETS (CONTAINING 60% - 63% RETIGABINE))

**14.3. Transport hazard class(es)** 6.1(PGIII)

**Subsidiary class(es)** -

**14.4. Packing group** III

**14.5. Environmental hazards** No

**Tunnel code** E

**Labels required** 6.1

**Additional information:**

**Special Provisions** 221, 274, 601

**IATA**

**14.1. UN number** UN3249

**14.2. UN proper shipping name** Medicine, solid, toxic, n.o.s. (RETIGABINE IMMEDIATE RELEASE TABLETS (CONTAINING 60% - 63% RETIGABINE))

**14.3. Transport hazard class(es)** 6.1

**Subsidiary class(es)** -

**14.4. Packing group** III

**Labels required** 6.1

**Additional Information:**

**Passenger & cargo** Allowed.

**Packaging Instruction** 670

**Pkg Inst cargo only** 677

**Pkg Inst pasenger & cargo** Y645

**LQ**

**SP See 44** A3,A801

**Max net qty pkg** 100 kg

**Max net qty pkg cargo only** 200 kg

**Max net qty pkg LQ** 10 kg

**IMDG**

**14.1. UN number** UN3249

**14.2. UN proper shipping name** MEDICINE, SOLID, TOXIC, N.O.S. (RETIGABINE IMMEDIATE RELEASE TABLETS (CONTAINING 60% - 63% RETIGABINE))

**14.3. Transport hazard class(es)** 6.1(PGIII)

**Subsidiary class(es)** T2

**14.4. Packing group** III

#### 14.5. Environmental hazards

Marine pollutant	Yes
Labels required	6.1
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

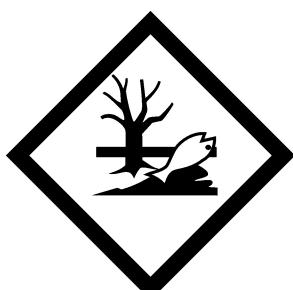
#### ADR



#### IATA



#### 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

Not listed.

##### 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

Not listed.

### 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

Not listed.

### 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

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## 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

R23/25 Toxic by inhalation and if swallowed.

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

R51 Toxic to aquatic organisms.

H301 Toxic if swallowed.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

### Training information

Follow training instructions when handling this material.

### Disclaimer

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.