

## SAFETY DATA SHEET



### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

|                     |   |
|---------------------|---|
| <b>Material</b>     | <b>COREG TABLETS</b>  |
| <b>Synonyms</b>     | COREG 3.125 MG TABLETS * COREG 6.25 MG TABLETS * COREG 12.5 MG TABLETS * COREG 25 MG TABLETS * COREG 50 MG TABLETS * EUCARDIC TABLETS * KREDEX TABLETS * NDC NO. 0007-4139-20 * NDC NO. 0007-4140-20 * NDC NO. 0007-4141-20 * NDC NO. 0007-4142-20 * CARVEDILOL, FORMULATED PRODUCT * KREDEX 3.125 MG TABLETS * KREDEX 6.25 MG TABLETS * KREDEX 12.5 MG TABLETS * KREDEX 25 MG TABLETS * KREDEX 50 MG TABLETS   |
| <b>Company Name</b> | GlaxoSmithKline, Corporate Environment, Health & Safety<br>980 Great West Road<br>Brentford, Middlesex TW8 9GS UK<br>UK General Information: +44-20-8047-5000<br>Transport Emergency (EU) +44-1865-407333<br>Medical Emergency +1-612-221-3999, Ext 221<br>Information and Advice: US number, available 24 hours<br>Multi-language response<br><br>GlaxoSmithKline, Corporate Environment, Health & Safety<br>2200 Renaissance Blvd, Suite 105<br>King of Prussia, PA 19406 US<br>US General Information: +1-888-825-5249<br>Transport Emergency (non EU) +1-703-527-3887<br>US number, available 24 hours<br>Multi-language response |

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients               | CAS RN     | Percentage |
|---------------------------|------------|------------|
| CARVEDILOL                | 72956-09-3 | 8          |
| NON-HAZARDOUS INGREDIENTS | Unassigned | 92         |

### 3. HAZARDS IDENTIFICATION

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Fire and Explosion</b> | Expected to be non-combustible. |
|---------------------------|---------------------------------|

|                    |  |
|--------------------|--|
| <b>* Health</b>    | Caution - Pharmaceutical agent. Exposure might occur via ingestion; skin; eyes.<br>May produce allergic skin reactions.<br>Possible effects of overexposure in the workplace include: difficult or irregular breathing; slow pulse; fainting; dizziness; bluish-coloured skin or extremities.<br>Handling this product in its final form presents minimal risk from occupational exposure. Health effects information is based on hazards of components. |
| <b>Environment</b> | Dangerous for the environment. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.   |

#### 4. FIRST-AID MEASURES

|                     |   |
|---------------------|---|
| <b>Ingestion</b>    | Never attempt to induce vomiting. Do not attempt to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. If the exposed subject is fully conscious, give plenty of water to drink. Obtain medical attention. |
| <b>Inhalation</b>   | Physical form suggests that risk of inhalation exposure is negligible.  |
| <b>Skin Contact</b> | Using appropriate personal protective equipment, remove contaminated clothing and flush exposed area with large amounts of water. Obtain medical attention if skin reaction occurs, which may be immediate or delayed.  |
| <b>Eye Contact</b>  | Wash immediately with clean and gently flowing water. Continue for at least 15 minutes. Obtain medical attention.   |

#### NOTES TO HEALTH PROFESSIONALS

|  |  |
|--|--|
| <b>* Medical Treatment</b>                                   | Medical treatment in cases of overexposure should be treated as an overdose of beta-adrenergic receptor blocker. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information centre. In allergic individuals, exposure to this material may require treatment for initial or delayed allergic symptoms and signs. This may include immediate and/or delayed treatment of anaphylactic reactions. |
| <b>* Medical Conditions Caused or Aggravated by Exposure</b> | None for occupational exposure.  |
| <b>Health Surveillance Procedures</b>                        | The need for pre-placement and periodic health surveillance must be determined by risk assessment. Following assessment, if the risk of exposure is considered significant then exposed individuals should receive health surveillance focused on detecting skin conditions.<br>In the event of overexposure, individuals should receive post exposure health surveillance focused on detecting skin conditions and other allergy symptoms.  |
| <b>* Antidotes</b>   | For medical treatment in cases of overexposure, a recommended antidote would be adrenaline, noradrenaline, or beta-sympathomimetics. The decision as to whether the severity of poisoning requires administration of any antidote and actual dose required should be made by qualified medical personnel.  |

#### 5. FIRE-FIGHTING MEASURES

|                                   |   |
|-----------------------------------|---|
| <b>Fire and Explosion Hazards</b> | Not expected for the product, although the packaging is combustible.                                      |
| <b>Extinguishing Media</b>        | Water, dry powder or foam extinguishers are recommended. Carbon dioxide extinguishers may be ineffective. |

|  |   |
|--|---|
| <b>Special Firefighting Procedures</b> | For single units (packages): No special requirements needed. For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapours might be evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipment are recommended for firefighters. If possible, contain and collect firefighting water for later disposal. |
| <b>Hazardous Combustion Products</b>   | Toxic, corrosive or flammable thermal decomposition products are expected when the product is exposed to fire.  |

## 6. ACCIDENTAL RELEASE MEASURES

|                                   |   |
|-----------------------------------|---|
| <b>Personal Precautions</b>       | Wear protective clothing and equipment consistent with the degree of hazard.  |
| <b>Environmental Precautions</b>  | Prevent entry into waterways, sewers, surface drainage systems and poorly ventilated areas.                           |
| <b>Clean-up Methods</b>           | Spread an inert absorbent on the spill and place in a suitable, properly labelled container for recovery or disposal. |
| <b>Decontamination Procedures</b> | No specific decontamination or detoxification procedures have been identified for this product.                       |

## 7. HANDLING AND STORAGE

### HANDLING

**General Requirements** Avoid breaking or crushing tablets.

### STORAGE

No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|   |                                      |
|---|--------------------------------------|
| <b>INGREDIENT</b>                       | CARVEDILOL                           |
| <b>GSK Occupational Hazard Category</b> | 3                                    |
| <b>GSK Occupational Exposure Limit</b>  | 30 MCG/M3 (8 HR TWA)      SENSITISER |

### ENGINEERING CONTROLS

**Exposure Controls** 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. Refer to the Exposure Control Matrix for more information about how ECA's are assigned and how to interpret them.

### PERSONAL PROTECTIVE EQUIPMENT

|                                      |   |
|--------------------------------------|---|
| <b>Eye Protection</b>                | Wear approved safety glasses with side shields if eye contact is possible.                      |
| <b>Other Equipment or Procedures</b> | Wear appropriate clothing to avoid skin contact. Wash hands and arms thoroughly after handling. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

**Physical Form** Film-coated tablet.

## 10. STABILITY AND REACTIVITY

|                            |   |
|----------------------------|---|
| <b>Stability</b>           | This product is expected to be stable.    |
| <b>Conditions to Avoid</b> | None for normal handling of this product. |

## 11. TOXICOLOGICAL INFORMATION

|                                |   |
|--------------------------------|---|
| <b>Oral Toxicity</b>           | Not expected to be toxic following ingestion.   |
| <b>Skin Effects</b>            | Irritation is not expected following direct contact.  |
| <b>Eye Effects</b>             | Irritation is not expected following direct contact with eyes.  |
| <b>Target Organ Effects</b>    | No specific target organ effects have been identified.  |
| <b>Sensitisation</b>           | Allergic skin reactions might occur following dermal exposure.  |
| <b>Genetic Toxicity</b>        | Not expected to be genotoxic under occupational exposure conditions.  |
| <b>Carcinogenicity</b>         | Not expected to produce cancer in humans under occupational exposure conditions. No components are listed as carcinogens by GSK, IARC, NTP or US OSHA.  |
| <b>Reproductive Effects</b>    | Not expected to produce adverse effects on fertility or development under occupational exposure conditions.   |
| <b>Pharmacological Effects</b> | It is an agent intended for the treatment of hypertension.<br>Adverse effects of overexposure might include: difficult or irregular breathing; slow pulse; fainting; dizziness; bluish-coloured fingernails or palms. |
| <b>* Other Adverse Effects</b> | None known for occupational exposure.   |

## 12. ECOLOGICAL INFORMATION

|                  |  |
|------------------|--|
| <b>* Summary</b> | This material contains an active pharmaceutical ingredient that has been tested and which may be harmful if released directly to the environment. Appropriate precautions should be taken to limit release of this material to the environment. Local regulations and procedures should be consulted prior to environmental release. |
|------------------|--|

Specific information on the active pharmaceutical ingredient is provided below.

### ECOTOXICITY

#### Aquatic

|                                     |  |
|-------------------------------------|--|
| <b>Activated Sludge Respiration</b> | This material contains an active pharmaceutical ingredient that is not toxic to activated sludge microorganisms. |
|-------------------------------------|--|

IC50: 98.4 mg/L, 3 Hours, Residential sludge

|                 |   |
|-----------------|---|
| <b>Microtox</b> | Microtox is a general toxicity test which utilizes a sensitive marine photo bacteria as the test species. This material contains an active pharmaceutical ingredient that is harmful to these microorganisms. |
|-----------------|---|

EC50: 5.43 mg/L, 15 Minutes

|                |  |
|----------------|--|
| <b>* Algal</b> | This material contains an active pharmaceutical ingredient that is toxic to algae. |
|----------------|--|

IC50: 1.6 mg/L, 72 Hours, Scenedesmus subspicatus, green algae

NOEL: 0.46 mg/L, 72 Hours, Scenedesmus subspicatus, green algae

|                |  |
|----------------|--|
| <b>Daphnid</b> | No toxicity to daphnids was observed for the active pharmaceutical ingredient in this mixture, but the upper range of the test was limited by the low water solubility of this compound. |
|----------------|--|

EC50: > 2.8 mg/L, 48 Hours, Daphnia pulex, Static test

NOEL: < 0.37 mg/L, 48 Hours, Daphnia pulex, Static test

**\* Fish** This material contains an active pharmaceutical ingredient that is very toxic to fish.  
Adult Lepomis macrochirus, bluegill sunfish  
EC50: 0.99 mg/L, 96 Hours, Static test  
Adult Lepomis macrochirus, bluegill sunfish  
NOEL: < 0.43 mg/L, 96 Hours, Static test

**MOBILITY**

**\* Solubility** This material contains an active pharmaceutical ingredient that for environmental fate predictions has limited solubility in water.

**Volatility** This material contains an active pharmaceutical ingredient that will not readily enter into air from water.

Henry's Law Constant 3.93E-07 atm m<sup>3</sup>/mol, Measured

**\* Adsorption** This material contains an active pharmaceutical ingredient that is likely to adsorb to soil or sediment. It may persist in soil or sediment if released directly to the environment.

This material contains an active pharmaceutical ingredient that is likely to adsorb to sludges and other biomass. It may persist in sludges or other biomass if released directly to the environment.

Soil Sediment Sorption 4.37 to 4.61, Measured  
(log Koc):

Sludge Biomass 3.74 to 4.31 Measured  
Distribution Coefficient  
(log Kd):

**\* Partitioning** This material contains an active pharmaceutical ingredient with octanol/water partition coefficient data that suggests that for environmental fate predictions the active pharmaceutical ingredient will not have the tendency to distribute into fats.

**PERSISTENCE/DEGRADATION**

**Hydrolysis** This material contains an active pharmaceutical ingredient that has been shown to be chemically stable in water. Hydrolysis is unlikely to be a significant depletion mechanism.

Half-Life, Neutral: > 1 Years, Measured

**Photolysis** This material contains an active pharmaceutical ingredient that has been shown to be chemically unstable in water when exposed to light. Aqueous photolysis may be a significant depletion mechanism.

Half-Life, Aqueous: 1.48 Hours, Measured

**\* Biodegradation** This material contains an active pharmaceutical ingredient that is not readily biodegradable but is inherently biodegradable (as defined by 1993 OECD Testing Guidelines) and is not expected to persist in the environment.

Aerobic - Inherent

Percent Degradation: 50 %, 28 days, Batch activated sludge (BAS),  
Activated sludge

**13. DISPOSAL CONSIDERATIONS**

**Disposal Recommendations** Collect for recycling or recovery if possible. The disposal method for rejected products/returned goods must ensure that they cannot be re-sold or re-used.

**Regulatory Requirements** Observe all local and national regulations when disposing of this product.

## 14. TRANSPORT INFORMATION

The SDS should accompany all shipments for reference in the event of spillage or accidental release. Only authorised persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous goods for transport.

### UN Classification and Labelling

**Transport Information** Transportation and shipping of this product is not restricted. It has no known, significant hazards requiring special packaging or labelling for air, maritime, US or European ground transport purposes.

## 15. REGULATORY INFORMATION

The information included below is an overview of the major regulatory requirements. It should not be considered to be an exhaustive summary. Local regulations should be consulted for additional requirements.

### \* EU Classification and Labelling

Exempt from requirements of EU Dangerous Preparations directive - product regulated as a medicinal product, cosmetic product or medical device.

### US OSHA Standard (29 CFR Part 1910.1200)

**Classification** This dosage form is exempt from the requirements of the OSHA Hazard Communication Standard.

### Other US Regulations

**TSCA Status** Exempt

## 16. OTHER INFORMATION

**References** GSK Hazard Determination

**Date Approved/Revised** 22-Nov-2004

**SDS Version Number** 15

### SDS Sections Updated

#### Sections

COMPOSITION / INFORMATION ON INGREDIENTS  
ECOLOGICAL INFORMATION

FIRST-AID MEASURES

#### Subsections

Activated Sludge Respiration  
Adsorption  
Algal  
Biodegradation  
Daphnid  
Fish  
Hydrolysis  
Microtox  
Partitioning  
Photolysis  
Solubility  
Summary  
Volatility  
Antidotes  
Eye Contact  
Health Surveillance Procedures  
Ingestion  
Inhalation

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## SDS Sections Updated

### Sections

FIRST-AID MEASURES

HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

REGULATORY INFORMATION

TOXICOLOGY INFORMATION

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.

### Subsections

Medical Conditions Caused or Aggravated by Exposure

Medical Treatment

Skin Contact

Conditions Aggravated by Exposure

Environment

Eye Contact

Health

Ingestion

Inhalation

Overview

Skin Contact

Summary

European Union Classification and Labelling Requirements

Other Adverse Effects