

## SAFETY DATA SHEET



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

|                     |  |
|---------------------|--|
| <b>Material</b>     | <b>GERITOL LIQUID</b>  |
| <b>Synonym(s)</b>   | LIQUID GERITOL * GERITOL LIQUID (US) * GERITOL TONIC * FORMULA NO. 1205100-0013 * MMI NO 4331 * NIACINAMIDE, RIBOFLAVIN, FERRIC AMMONIUM CITRATE AND THIAMINE HYDROCHLORIDE, FORMULATED PRODUCT  |
| <b>Company Name</b> | <p>GlaxoSmithKline, Corporate Environment, Health &amp; Safety<br/>980 Great West Road<br/>Brentford, Middlesex TW8 9GS UK</p> <p>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</p> <p>GlaxoSmithKline, Corporate Environment, Health &amp; Safety<br/>One Franklin Plaza, 200 N 16th Street<br/>Philadelphia, PA 19102-1225 US</p> <p>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</p> |

### \* 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients                              | CAS #     | Percent | EC-No.    |
|--|-----------|---------|-----------|
| ETHANOL                                  | 64-17-5   | 8.5     | 200-578-6 |
| FERRIC AMMONIUM CITRATE                  | 1185-57-5 | 0.7     |           |
| NICOTINAMIDE                             | 98-92-0   | 0.3     |           |
| RIBOFLAVIN                               | 83-88-5   | 0.02    |           |
| THIAMINE HYDROCHLORIDE                   | 67-03-8   | 0.03    | 200-641-8 |
| Other components below reportable levels |           | 90.45   |           |

### 3. HAZARDS IDENTIFICATION

|                           |   |
|---------------------------|---|
| <b>Fire and Explosion</b> | This product is classified as non-flammable.  |
| <b>Health</b>             | 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>        | No information is available about the potential of this product to produce adverse environmental effects.   |

## 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>                                   | None.                                  |
| <b>Medical Conditions Caused or Aggravated by Exposure</b> | None for occupational exposure.        |
| <b>Antidotes</b>   | No specific antidotes are recommended. |

## 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 is recommended for fires involving packaging.   |
| <b>Special Firefighting Procedures</b> | For single units (packages): No special requirements needed.<br>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.<br>If possible, contain and collect firefighting water for later disposal. |
| <b>Hazardous Combustion Products</b>   | Toxic or corrosive thermal decomposition products are expected when this material 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>  | For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems. |
| <b>Clean-up Methods</b>           | Collect and place it 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

|                             |  |
|-----------------------------|--|
| <b>General Requirements</b> | No special control measures required for the normal handling of this product. Normal room ventilation is expected to be adequate for routine handling of this product. |
|-----------------------------|--|

### STORAGE

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

Material GERITOL LIQUID

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|   |                        |
|---|------------------------|
| <b>INGREDIENT</b>                       | NICOTINAMIDE           |
| <b>GSK Occupational Hazard Category</b> | 1                      |
| <b>GSK Occupational Exposure Limit</b>  | 1000 MCG/M3 (8 HR TWA) |
| <b>INGREDIENT</b>                       | THIAMINE HYDROCHLORIDE |
| <b>GSK Occupational Hazard Category</b> | 1                      |
| <b>INGREDIENT</b>                       | RIBOFLAVIN             |
| <b>GSK Occupational Hazard Category</b> | 1                      |

**Other Equipment or Procedures** Wash hands and arms thoroughly after handling. None required for normal handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|                      |            |
|----------------------|------------|
| <b>Colour</b>        | Brown/red. |
| <b>Physical Form</b> | Liquid.    |

## 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. TOXICOLOGY INFORMATION

### Routes of Exposure

|                              |   |
|------------------------------|---|
| <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>Sensitisation</b>         | Sensitisation (allergic skin reaction) is not expected.   |
| <b>Genetic Toxicity</b>      | Not expected to be genotoxic under occupational exposure conditions.  |
| <b>Carcinogenicity</b>       | 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>Other Adverse Effects</b> | None known for occupational exposure.   |

## 12. ECOLOGICAL INFORMATION

|                |  |
|----------------|--|
| <b>Summary</b> | No information is available about the potential of this product to produce adverse environmental effects. Local regulations and procedures should be consulted prior to environmental release. |
|----------------|--|

## 13. DISPOSAL CONSIDERATIONS

|                                 |   |
|---------------------------------|---|
| <b>Disposal Recommendations</b> | 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. |
| <b>Regulatory Requirements</b>  | 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

Exempt when packaged for sale to consumers in a retail establishment.

### Other US Regulations

#### TSCA Status

Exempt

## 16. OTHER INFORMATION

### References

GSK Hazard Determination

### SDS Version Number

8

### SDS Sections Updated

#### Sections

COMPOSITION / INFORMATION ON INGREDIENTS

#### Subsections

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.