

# SAFETY DATA SHEET

Version: 1.0 Date: 05<sup>th</sup> June 2019



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	SPECTRE
Product Code	3004
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Used as a reference for Magnetic Resonance Spectroscopy
Uses Advised Against	None known
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company Identification	Gold Standard Phantoms Limited The Network Building 97 Tottenham Court Road London W1T 4TP United Kingdom
Telephone	+44 (0) 207 684 7749
E-Mail (competent person)	<a href="mailto:info@goldstandardphantoms.com">info@goldstandardphantoms.com</a>
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 (0) 781 654 3283
Languages spoken	English

## 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)</b>	This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. Since this material has no intended release of a substance and will not result in exposure to a hazardous chemical under normal conditions of use, no hazard classification or Safety Data Sheet is required. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.
<b>2.2 Label elements</b>	Not applicable.
Hazard Pictogram(s)	Not applicable.
Signal Word(s)	Not applicable.
Hazard Statement(s)	Not applicable.
Precautionary Statement(s)	Not applicable.
Supplemental information	Not applicable
<b>2.3 Other hazards</b>	None known

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

As the product is an article (as defined in Regulation (EC) No 1907/2006), no components need to be listed within section 3 of the SDS as the requirements of SDS regulation 2015/830 do not apply. This product does not contain any known substances of very high concern" (SVHC's). An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

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## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider  
Inhalation

No special precautions are required for this product.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Dusts: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical attention/advice. If skin irritation occurs, get medical advice/attention. Dusts: Mechanical irritation of the skin and eyes. Wash skin with water. If irritation (redness, rash, blistering) develops, get medical attention.

Skin Contact

Eye Contact

Remove contact lenses, if present and easy to do. Continue rinsing. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation develops and persists, get medical attention.

Ingestion

Give plenty of water to drink. Get medical advice/attention if you feel unwell.

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

None anticipated. Machining may create dust.

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

No information available. Treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire.

Small scale: Extinguish preferably with dry chemical, foam, waterspray or sand. Large scale: Use water spray, foam, dry powder or CO2 to extinguish.

Unsuitable extinguishing media

As appropriate for surrounding fire. Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

On overheating or burning: release of toxic and corrosive gases/vapours. Combustion products: metal oxides

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Toxic fumes may be produced in a fire. Avoid contact with skin and eyes. Do not allow run-off from fire fighting to enter drains or water courses. Move undamaged containers from immediate hazard area if it can be done safely. Keep containers cool by spraying with water if exposed to fire.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

General measures applicable to all activities

Eliminate all ignition sources if safe to do so. Avoid contact with skin, eyes or clothing. Do not heat the product. Do not allow to enter drains, sewers or watercourses.

#### 6.1.1 For non-emergency personnel

Personal precautions, protective equipment and emergency procedures  
Emergency procedures

Wear suitable protective clothing. In case of fire: Use self-contained breathing apparatus. Wear suitable gloves and eye/face protection.

No special measures are required.

#### 6.1.2 Self-protection of the first aider

Personal precautions, protective equipment and emergency procedures  
Emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation.

No special measures are required.

### 6.2 Environmental precautions

Do not allow run-off from fire fighting to enter drains or water courses. Use appropriate containment. Ensure all waste water is collected and treated via a waste water treatment plant. Avoid release to the environment.

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- 6.3 Methods and material for containment and cleaning up** Avoid generation of dust. Stop leak if safe to do so. Use appropriate container to avoid environmental contamination. Wet clean or vacuum up solids. Dispose of contents in accordance with local, state or national legislation.
- 6.4 Reference to other sections** See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove contaminated clothing and wash clothing before reuse. Opened containers should be carefully resealed and stored in an upright position. Keep away from heat and sparks.
- Hygiene Measures Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed and in a well-ventilated place. Keep away from heat and sparks.
- Storage temperature Ambient temperatures.
- Incompatible materials None known.
- 7.3 Specific end use(s)** Reference standard for Magnetic Resonance Spectroscopy

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits** Users are advised to consider national Occupational Exposure Limits or other equivalent values.
- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)** Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Not normally required.

Skin protection



Not normally required.

Respiratory protection



Not normally required.

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Thermal hazards

Not applicable

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Clear liquid, pale yellow colour
Odour	Pungent
Odour threshold	Not established
pH	7.4
Melting point/freezing point	Not established
Initial boiling point and boiling range	Not established
Flash point	Not established
Evaporation rate	Not established
Flammability (solid, gas)	Not established
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not established
Vapour density	Not established
Relative density	Not established
Solubility(ies)	Not established
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition Temperature	Not established
Viscosity	Not established
Explosive properties	Not established
Oxidising properties	Not established

### 9.2 Other information

None known

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Should be kept away from naked flames and other sources of ignition.
10.5 Incompatible materials	Keep away from water. Avoid contact with acids and alkalis.
10.6 Hazardous decomposition product(s)	None known

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects (Substances in preparations / mixtures)

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. This product does not contain any known substances of very high concern" (SVHC's). An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

#### Acute toxicity

Ingestion	Based upon the available data, the classification criteria are not met.
Inhalation	Based upon the available data, the classification criteria are not met.
Skin Contact	Based upon the available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based upon the available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based upon the available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	Based upon the available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.

### 11.2 Other information

None

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## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Based upon the available data, the classification criteria are not met.
12.2	<b>Persistence and degradability</b>	No information available.
12.3	<b>Bioaccumulative potential</b>	No information available.
12.4	<b>Mobility in soil</b>	No information available.
12.5	<b>Results of PBT and vPvB assessment</b>	None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	<b>Other adverse effects</b>	No information available

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Do not allow to enter drains, sewers or watercourses. Dispose of this material and its container as hazardous waste. Disposal should be in accordance with local, state or national legislation.
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## 14. SECTION 14: TRANSPORT INFORMATION

This product is regarded as the article and this product is physically and chemically stable under normal conditions. Thus, this product is not regarded as dangerous goods under UN transport regulations.

	<b>ADR/RID</b>	<b>IMDG/ADN</b>
14.1	<b>UN number</b>	Not applicable.
14.2	<b>Proper Shipping Name</b>	Not applicable.
14.3	<b>Transport hazard class(es)</b>	Not applicable.
14.4	<b>Packing group</b>	Not applicable.
	Hazard label(s) (UN)	Not applicable.
14.5	<b>Environmental hazards</b>	Not applicable.
14.6	<b>Special precautions for user</b>	Not applicable.
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
14.8	<b>Additional Information</b>	Not applicable.
	Hazard Identification Number (Kemler Code)	Not applicable.
	Classification code: UN	Not applicable.
	Orange plates	Not applicable.
	Special Provisions	Not applicable.
	ADR Transport Category	Not applicable.
	Tunnel Restriction Code	Not applicable.
	Limited Quantity (ADR)	Not applicable.
	Excepted quantities (ADR)	Not applicable.
	EAC code	Not applicable.

## 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	Authorisations and/or Restrictions On Use	Not restricted
	Substance(s) of Very High Concern (SVHCs)	None of the substances is included on the Candidate List of Substances of Very High Concern for authorisation (Annex XIV) under REACH Regulation (EC) No. 1907/2006.
15.1.2	<b>National regulations</b>	None known.
15.2	<b>Chemical Safety Assessment</b>	A chemical safety assessment is not required under REACH.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

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**References:** Safety Data Sheets for ingoing ingredients. Regulation (EC) No. 1272/2008 (CLP). REACH Regulation (EC) No. 1907/2006.

**Hazard classification:** This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

## LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

## Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Gold Standard Phantoms Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Gold Standard Phantoms Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.