

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

This SDS is for information only and is not mandated by the Regulations.

Product identifier(s): Moonshine® Ultra Travel Series

Product Name(s): Blue Green Gold Ultra Sparkle Red, Red Violet Blue Ultra Sparkle Red.

Product Code(s): GFUT-BGGUS-R, GFUT-RVBUS-R

Other means of identification: Calcium Sodium Borosilicate, Moonshine® Glassflake

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Industrial uses, cosmetic uses as a decorative filler

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Glassflake Ltd
- Address of Supplier: Donisthorpe Street, Hunslet, Leeds, LS10 1PL
- Telephone: +44 (0) 113 2703615
- Fax: +44 (0) 113 2718750
- Email: Info@glassflake.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1652 642124

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Product identification under REACH and CLP: Mixture

Not classified as dangerous according to European Union legislation EC No 1272/2008 (CLP)

No need for classification according to GHS criteria for this product.

Labelling (67/548/ EEC or 1999/45/EC).

2.2 Label elements

Globally Harmonized System, EU (GHS)

The Product does not require a hazard warning label in accordance with GHS criteria. According to Directive 67/548/EEC or 1999/45/EC The product does not require a hazard warning label in accordance with EC Directives.

2.3 Other hazards

Not applicable.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No	%	Classification	Type
Calcium Sodium Borosilicate	65997-17-3	54 – 92	Not classified	(A)
Amorphous Silica	7631-86-9	5 – 20	Not classified	(A)
Titanium Dioxide	13463-67-7	2 – 20	Not classified	(A)
Carmine	1390-65-4	1 – 2	Not classified	(A)
Tin Oxide	18282-10-5	0 – 5	Not classified	(A)

Type - [A] Constituent [B] Impurity [C] Additive

SECTION 4: First aid measures**4.1 Most important symptoms and effects, both acute and delayed**

- May cause irritation

Skin contact: Wash with mild soap and running water, remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- Mildly irritating to eyes

Flush with flowing water for at least 15 minutes and if symptoms persist, seek immediate medical attention.

SECTION 4: First aid measures (....)

- Mildly irritating to respiratory system
(Large amounts of dust) Move victim to fresh air. Aid breathing.

Inhalation: Avoid inhalation of dusts. Use ventilation and PPE. Move victim to fresh air and keep at rest in a position comfortable for breathing. Aid breathing, get medical attention if symptoms occur.

Ingestion: Wash mouth out with water. Move victim to fresh air and keep rested in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
 - Contact supplier for further information
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SECTION 5: Firefighting measures

5.1 Extinguishing media

- P370+P378 - In case of fire: use water, alcohol resistant foam or dry agent to extinguish.

5.2 Special hazards arising from the substance or mixture

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
Glassflake products are non-combustible and will not burn, additionally, there are many chemicals that can evolve during any partial decomposition of chemical products. The amounts or identities cannot be predicted and can differ in each situation.

See 'Section 11' for more information on health effects and symptoms.

5.3 Advice for firefighters

- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts.

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate Personal Protective Equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in 'Section 8' on suitable and unsuitable materials. See also the information in 'For non-emergency personnel'.

6.2 Environmental precautions

- Glassflake is generally considered to be an inert solid waste. No special precautions are needed in case of a release or spill.

6.3 Methods and material for containment and cleaning up

- Small spill:
Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill:
Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See 'Section 1' for emergency contact information. See 'Section 8.2' for information on appropriate Personal Protective Equipment. See 'Section 13' for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of 'Relevant identified uses' in 'Section 1' should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Avoid inhalation of dusts, use ventilation and extraction systems where available and use PPE.

Put on Personal Protective Equipment (see 'Section 8.2' for more information). Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 7: Handling and storage (...)**7.2 Conditions for safe storage, including any incompatibilities**

- Store in accordance with local regulations

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Occupational exposure limits (EU):

Product/Ingredient name

Calcium Sodium Borosilicate

Amorphous Silica

Titanium Dioxide

Carmine

Tin Oxide

Exposure limit values (8 Hour TWA reference period)

EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA = 5mg/m³2.4mg/m³ (respirable)6mg/m³ (total inhalable)10mg/m³ (total inhalable), 4mg/m³ (respirable)

Contains no substances with occupational exposure limit values.

Belgium: TWA = 2mg/m³ (as Sn), Canada: TWA = 2mg/m³ (as Sn)Finland: TWA = 2mg/m³ (as Sn), Spain: TWA = 2 mg/m³ (as Sn),Korea: TWA = 2mg/m³

Occupational exposure limits (US):

Product/Ingredient name

Calcium Sodium Borosilicate

Carmine

Exposure limit values

ACGIH TLV (8hr.TWA) 5mg/m³

OSHA PEL (8hr.TWA)

Contains no substances with occupational exposure limit values. Tin Oxide

NIOSH: TWA = 2mg/m³ (as Sn)

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to the European Standards EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs: Not available.

PNECs: Not available.

8.2 Exposure controls

Appropriate engineering controls:

Avoid inhalation of dusts, use ventilation and extraction systems where available and use PPE. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures -

Hygiene measures: Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton overalls or long sleeved loose fitting clothing will maximise comfort. Appropriate techniques should be used to remove potentially contaminated clothing. Work clothing should be laundered separately from other clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side-shields (frame goggles)

Skin/Hand protection: to protect against physical irritation or injury if required by handling conditions. Gloves: Nitrile rubber, butyl rubber, PVC, Viton.

Body protection: Wear clean body covering clothing.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: If dust is generated and ventilation is inadequate, use a respirator that will protect against dust/mist. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Solid in the form of flakes
- Odour threshold No odour
- pH: 4 - 8
- Melting point/Range: >850 deg C / approx. 688 deg C (Softening point)
- Freezing point/Range: Not applicable
- Boiling Point/Range: Not available
- Flashpoint: Closed cup: Not applicable (Product does not sustain combustion).
- Evaporation Rate: Not available
- Flammability: Not available
- Upper explosive limit: Not applicable % (in air)
- Lower explosive limit: Not applicable % (in air)
- Vapour Density: Not available
- Density: 2.4-2.8
- Solubility in water: Insoluble in water
- Partition Coefficient (n-Octanol/Water): Not available
- Autoignition Temperature: Not available
- Viscosity: Not available
- Explosive Properties: Not available
- Oxidising Properties: Not available

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

The product is stable at normal temperatures, Carmine is unstable under high temperatures. Do not heat above 110C.

10.3 Possibility of hazardous reactions

- Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid airborne dusts. When exposed to high temperatures, product may produce hazardous decomposition products. Refer to protective measures listed on 'Sections 7 and 8'. Avoid deposition of dust.

10.5 Incompatible materials

Strong acids, Strong bases, Hydrogen fluoride, Oxidizing agents, Ammonia, Oxygen difluoride, Chlorine trifluoride

10.6 Hazardous decomposition products

Glassflake products may release small amounts of acetic acid and other organic materials at elevated temperatures.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Calcium Sodium Borosilicate: Not classified
Amorphous Silica: Not classified.
Titanium Dioxide (Oral): Rat LD50 >5,000mg/kg (OECD TG425)
Titanium Dioxide (Dermal): Rabbit, LD50 >10,000mg/kg
Carmine: No data available
Tin Oxide (Oral): Rat LD50 > 2,000mg/kg

Inhalation: Not classified.

Skin irritation/corrosion
Calcium Sodium Borosilicate: In skin irritation with rabbits, irritations were not observed (OECD, TG404 GLP).
Amorphous Silica: Not observed (Oral & Dermal).
Titanium Dioxide: Not observed (OECD, TG404 GLP)
Carmine: No data available
Tin Oxide: Not observed.

SECTION 11: Toxicological information (...)

Serious eye damage/ irritation

Calcium Sodium Borosilicate: In a case study on the effect of the occupational exposure with human, eye irritations were not observed.

Amorphous Silica: Not observed.

Titanium Dioxide: Not observed (OECD, TG404 GLP)

Carmines: No data available

Tin Oxide: Not observed.

Respiratory sensitization: May cause mechanical irritation.

Skin sensitization

Calcium Sodium Borosilicate: In a case study of worker exposure by dermal contact, skin sensitization was not observed.

Amorphous Silica: Not observed.

Carmines: No data available

Tin Oxide: Not classified.

Carcinogenicity Not classifiable as to its carcinogenicity to humans.

Mutagenicity

Calcium Sodium Borosilicate: Mutagenic reactions were not observed in-vitro (TNF-alpha test).

Amorphous Silica: Unscheduled DNA synthesis (Rat).

Titanium Dioxide: Negative reactions were observed in in-vitro (mammalian cell gene mutation test (OECD TG476, GLP), mammalian chromosome aberration test (OECD TG73, GLP), bacterial reverse mutation assay (OECD TG471 and in-vivo (micronucleus assay).

Carmines: No data available

Tin Oxide: Not observed.

Reproductive toxicity

Calcium Sodium Borosilicate: In a reproductive/developmental toxicity test, reproductive/developmental toxicity were not observed.

Amorphous Silica: Not available.

Tin Oxide: Not classified.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeat exposure): Not available

Teratogenicity

Conclusion/Summary: Not available.

Information of the likely exposure routes

Conclusion/Summary: Not classified.

Potential acute health effects

Inhalation: Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract.

Ingestion: Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

Potential Chronic health effects: Not available.

Aspiration Hazard: No aspiration hazard expected.

Conclusion/Summary:

There are no known health effects from the long term use or contact with coated or uncoated glassflakes.

Glassflakes cannot reach deep into the lung because they have a mean average diameter greater than 10µm. Flakes of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung and thus, have no possibility of causing serious pulmonary damage. Instead, they deposit on the surfaces of the upper respiratory tract, nose or pharynx. These flakes are then cleared through normal physiological mechanisms.

The product is not classified as dangerous according to the Directive 1999/45/EC and its amendments.

SECTION 12: Ecological information**12.1 Toxicity**

- No negative ecological effects are expected.

12.2 Persistence and degradability

- Not available

SECTION 12: Ecological information (...)**12.3 Bioaccumulative potential**

- Not available

12.4 Mobility in soil

- Not available

12.5 Results of PBT and vPvB assessment

- Not available

12.6 Other adverse effects

- No known significant effects or critical hazards.
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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of 'Relevant identified uses' in 'Section 1' should be consulted for any available use-specific information provided by the Exposure Scenario(s).

13.1 Waste treatment methods

Product - Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: The generation of waste should be avoided wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Packaging - Methods of disposal:

The generation of waste should be avoided wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Type of packaging: Pallet - European waste catalogue (EWC): 150102 plastic packaging, 150103 wooden packaging.

Special precautions: This material and its container must be disposed of in a safe way.

SECTION 14: Transport information**14.1 Special precautions for user**

The product(s) are not considered hazardous according to national and international regulations on the transport of dangerous goods. Avoid generation of dust.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

(GHS) COMMISSION REGULATION (EU) 2015/830

REACH - Exempt under Annex V paragraph 11 (exemptions from the Obligation to Register in Accordance with Article 2(7)(b) Annex XIV - List of substances subject to authorization Substances of Very High Concern. There are no Substances of Very High Concern (SVHC) in the glassflake products.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles not applicable. Titanium Dioxide REACH registered, Silica REACH registered, Tin Oxide REACH registered, Carmine: REACH Exempt.

(OSHA) US Federal Regulations

Toxic substances Control Act: This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States: No TSCA 12 (b) components exist in this product.

CERCLA - SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None Known

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372: No Sara 313 components exist in this product:

U.S. State Regulations: New Jersey Right-to-Know: The following materials are non-hazardous, but among the top five components in this product. No NJ Right-To-Know components exist in this product.

Pennsylvania Right-To-Know: The following non-hazardous ingredients are present in the product at greater than 3%. No PA Right-To-Know components exist in this product.

CALIFORNIA PROPOSITION 65: No Proposition 65 Carcinogens exist in this product. No Proposition 65 Reproductive Toxins exist in this product.

International Regulations:

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings. Canadian WHMIS Class: No WHMIS Class Assigned.

SECTION 15: Regulatory information (...)

Chemical Inventory Status (CAS No. 65997-17-3):

TSCA: Listed, EINECS/ELINCS - Listed (EC No. 266-046-0), Canadian DSL - Listed, Australia AICS - Listed, Japan ENCS (1)-189 - Listed, Korea KIEC - Listed ECL = KE-17630), China IECSC - Listed, New Zealand NZloc - Listed, Taiwan TCSI - Listed, Philippines PICCS - Listed, Switzerland - Unknown, Turkey CIRS - Listed.

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

SECTION 16: Other information

Glassflakes and Moonshine pigments are not substances of very high concern (SVHC).

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Note: This information is based on present scientific and technical knowledge, and is offered in good faith, but without guarantee or liability. Should further information regarding this product be required, please consult Glassflake technical services.

--- end of safety datasheet ---
