

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 1 of 10

Revision date : 4.8.15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SCENIC COLOURS BLACK

Chemical name : Mixture

Product number BD23 Component

Synonyms; trade names

REACH registration

CAS number

EC number

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

Hobby modelling colouring mixture.

Uses advised against : This product is not recommended for any industrial, professional or consumer uses other than those identified above.

1.3. Details of the supplier of the safety data sheet

Supplier : Deluxe Materials Limited

Unit 13 Cufau de Business Park, Cufau de Lane

Bramley, Hampshire RG26 5DL

Tel. + 44 (0) 1256 883944

Fax.+ 44 (0) 1256 883966

Contact : info@deluematmaterials.com

1.4. Emergency telephone number: Emergency telephone +44(0) 1256 883944 (office hours only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Mixture

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Human health: Not classified as a health hazard according to CLP criteria

Environmental : Not considered as an environmental hazard according to CLP criteria

Physicochemical: Not considered as a physical hazard under CLP criteria

2.2. Label elements : No label elements.

EC number

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 2 Of 10

SECTION 3: Composition/information on ingredients: Mixture

3.1

Component	Reach Registration Number	CAS number	EC number	Chemical formula	%
Glycerine	01-2119471987-18-XXXX	56-81-5	200-289-5	C3H8O3	98.75 %
Mixture	Euroblend black				1.25%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea. Spray/mists may cause respiratory tract irritation.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause stomach pain or vomiting.

Diarrhoea. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 3 Of 10

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Nonalcohol resistant foam

5.2. Special hazards arising from the substance or mixture

Specific hazards Although not classed as flammable this product is combustible. May ignite at high temperature. Closed containers can burst violently when heated, due to excess pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Hazardous combustion products: Oxides of carbon. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Fight advanced or massive fires from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Take care as floors and other surfaces may become slippery. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Environmental Manager must be informed of all major spillages. Do not discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 4 of 10

Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid the spillage or runoff entering drains, sewers or watercourses.

Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene

Eye wash facilities and emergency shower must be available when handling this product.

Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Clean equipment and the work area every day. Contaminated clothing should be placed in a closed container for disposal or decontamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage. Storage tanks and other containers must be earthed. Keep away from food, drink and animal feeding stuffs. Only store in correctly labelled containers. Suitable container materials: Carbon steel. Mild steel. Stainless steel. Aluminium. Do not use containers made of the following materials: Zinc. May attack some plastics, rubber and coatings.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 5 of 10

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit

DNEL Industry - Inhalation; Long term systemic effects: 56 mg/m³

Consumer - Inhalation; Long term systemic effects: 33 mg/m³

Consumer - Oral; Long term systemic effects: 229 mg/kg/day

PNEC Industry - Fresh water; Long term 0.885 mg/l

Industry - Marine water; Long term 0.0885 mg/l

Industry - Intermittent release; Long term 8.85 mg/l

Industry - Sediment (Freshwater); Long term 3.3 mg/kg

Industry - Sediment (Marinewater); Long term 0.33 mg/kg

Industry - Soil; Long term 0.141 mg/kg

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Ensure the ventilation system is regularly maintained and tested. Use explosion-proof electrical, ventilating and lighting equipment. This product must not be handled in a confined space without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Neoprene. Nitrile rubber Butyl rubber. For short-term / splash

protection the following are recommended Polyvinyl alcohol (PVA). To protect hands from

chemicals, gloves should comply with European Standard EN374. The most suitable glove

should be chosen in consultation with the glove supplier/manufacturer, who can provide

information about the breakthrough time of the glove material.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 6 of 10

prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated clothing should be placed in a closed container for disposal or decontamination.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour : Black

Odour Odourless.

Melting point - 18.2° C

Initial boiling point and range 290° C @ 1013 hPa

Flash point 198° C CC (Closed cup).

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 2.7 % V Upper flammable/explosive limit: 19 % V

Vapour pressure 0.1 Pa @ 20° C

Bulk density 1.261 kg/l @ 20'C

Solubility(ies) Miscible with water. Soluble in the following materials: Organic solvents.

Partition coefficient log Pow: - 1.76

Auto-ignition temperature 370° C

Viscosity 1.42 Pa s @ 20° C

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 7 of 10

9.2. Other information

Refractive index 1.474

Molecular weight 92.09

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents. Strong acids. Strong alkalis.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Reacts with strong oxidising agents Reacts with strong acids Reacts with strong alkalis

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 12,600 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 18,700 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.75 mg/l/4hr/day, Inhalation, Guinea pig

Skin corrosion/irritation

Animal data Not classified as irritating to skin

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 8 of 10

Serious eye damage/irritation Not classified as irritating to eyes

Respiratory sensitisation Not classified as a respiratory sensitiser

Skin sensitisation Not classified as a skin sensitiser

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Not considered an aspiration hazard.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Vapours/aerosol spray may irritate the respiratory system. Vapours and spray/mists in high concentrations are narcotic.

Ingestion Gastrointestinal symptoms, including upset stomach. Symptoms following overexposure may include the following: Stomach pain. Diarrhoea. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards

This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry Inhalation Ingestion.

Target organs No specific target organs known.

Medical considerations Skin disorders and allergies. Splash in eye requires examination by eye specialist.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC_{50} , 96 hours: 54,000 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC_{50} , 24 hours: > 10,000 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC_{50} , 48 hours: > 2,900 mg/l, *Scenedesmus subspicatus*

Acute toxicity - microorganisms

EC_{80} , 72 hours: > 10,000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log P_{ow} : - 1.76

12.4. Mobility in soil

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 9 of 10

Mobility The product is water-soluble and may spread in water systems. If product enters soil it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No adverse effects are expected

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contaminated packages must be completely emptied before sending away for laundering and re-use When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Collect and place in suitable waste disposal containers and seal securely. Empty containers

or liners may retain some product residues and hence be potentially hazardous. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses. Waste class Water hazard class 1

SECTION 14: Transport information

General: Not classified as hazardous for conveyance

14.1. UN number : Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es) : No transport warning sign required.

14.4. Packing group: Not applicable.

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not listed

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Health and Safety at Work etc. Act 1974 (as amended).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Dangerous Substances and Explosive Atmospheres Regulations 2002.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 10 of 10

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII

Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII

Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Inventories

EU - EINECS/ELINCS

SECTION 16: Other information

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al. Registry of Toxic Effects of Chemical Substances (RTECS). ECHA

Risk phrases in full NC: Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 1 of 10

Revision date : 4.8.15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SCENIC COLOURS BLUE

Chemical name : Mixture

Product number BD23 Component

Synonyms; trade names

REACH registration

CAS number

EC number

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

Hobby modelling colouring mixture.

Uses advised against : This product is not recommended for any industrial, professional or consumer uses other than those identified above.

1.3. Details of the supplier of the safety data sheet

Supplier : Deluxe Materials Limited

Unit 13 Cufau de Business Park, Cufau de Lane

Bramley, Hampshire RG26 5DL

Tel. + 44 (0) 1256 883944

Fax.+ 44 (0) 1256 883966

Contact : info@deluematmaterials.com

1.4. Emergency telephone number: Emergency telephone +44(0) 1256 883944 (office hours only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Mixture

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Human health: Not classified as a health hazard according to CLP criteria

Environmental : Not considered as an environmental hazard according to CLP criteria

Physicochemical: Not considered as a physical hazard under CLP criteria

2.2. Label elements : No label elements.

EC number

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 2 Of 10

SECTION 3: Composition/information on ingredients: Mixture

3.1

Component	Reach Registration Number	CAS number	EC number	Chemical formula	%
Glycerine	01-2119471987-18-XXXX	56-81-5	200-289-5	C3H8O3	98.75 %
Mixture	Keyacid Blue				1.25%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea. Spray/mists may cause respiratory tract irritation.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause stomach pain or vomiting.

Diarrhoea. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 3 Of 10

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Nonalcohol resistant foam

5.2. Special hazards arising from the substance or mixture

Specific hazards Although not classed as flammable this product is combustible. May ignite at high temperature. Closed containers can burst violently when heated, due to excess pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Hazardous combustion products: Oxides of carbon. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Fight advanced or massive fires from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Take care as floors and other surfaces may become slippery. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Environmental Manager must be informed of all major spillages. Do not discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 4 of 10

Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid the spillage or runoff entering drains, sewers or watercourses.

Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene

Eye wash facilities and emergency shower must be available when handling this product.

Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Clean equipment and the work area every day. Contaminated clothing should be placed in a closed container for disposal or decontamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage. Storage tanks and other containers must be earthed. Keep away from food, drink and animal feeding stuffs. Only store in correctly labelled containers. Suitable container materials: Carbon steel. Mild steel. Stainless steel. Aluminium. Do not use containers made of the following materials: Zinc. May attack some plastics, rubber and coatings.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 5 of 10

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit

DNEL Industry - Inhalation; Long term systemic effects: 56 mg/m³

Consumer - Inhalation; Long term systemic effects: 33 mg/m³

Consumer - Oral; Long term systemic effects: 229 mg/kg/day

PNEC Industry - Fresh water; Long term 0.885 mg/l

Industry - Marine water; Long term 0.0885 mg/l

Industry - Intermittent release; Long term 8.85 mg/l

Industry - Sediment (Freshwater); Long term 3.3 mg/kg

Industry - Sediment (Marinewater); Long term 0.33 mg/kg

Industry - Soil; Long term 0.141 mg/kg

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Ensure the ventilation system is regularly maintained and tested. Use explosion-proof electrical, ventilating and lighting equipment. This product must not be handled in a confined space without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Neoprene. Nitrile rubber Butyl rubber. For short-term / splash

protection the following are recommended Polyvinyl alcohol (PVA). To protect hands from

chemicals, gloves should comply with European Standard EN374. The most suitable glove

should be chosen in consultation with the glove supplier/manufacturer, who can provide

information about the breakthrough time of the glove material.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 6 of 10

prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated clothing should be placed in a closed container for disposal or decontamination.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour: Blue

Odour Odourless.

Melting point - 18.2° C

Initial boiling point and range 290° C @ 1013 hPa

Flash point 198° C CC (Closed cup).

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 2.7 % V Upper flammable/explosive limit: 19 % V

Vapour pressure 0.1 Pa @ 20° C

Bulk density 1.261 kg/l @ 20'C

Solubility(ies) Miscible with water. Soluble in the following materials: Organic solvents.

Partition coefficient log Pow: - 1.76

Auto-ignition temperature 370° C

Viscosity 1.42 Pa s @ 20° C

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 7 of 10

9.2. Other information

Refractive index 1.474

Molecular weight 92.09

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents. Strong acids. Strong alkalis.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Reacts with strong oxidising agents Reacts with strong acids Reacts with strong alkalis

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 12,600 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 18,700 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.75 mg/l/4hr/day, Inhalation, Guinea pig

Skin corrosion/irritation

Animal data Not classified as irritating to skin

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 8 of 10

Serious eye damage/irritation Not classified as irritating to eyes

Respiratory sensitisation Not classified as a respiratory sensitiser

Skin sensitisation Not classified as a skin sensitiser

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Not considered an aspiration hazard.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Vapours/aerosol spray may irritate the respiratory system. Vapours and spray/mists in high concentrations are narcotic.

Ingestion Gastrointestinal symptoms, including upset stomach. Symptoms following overexposure may include the following: Stomach pain. Diarrhoea. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards

This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry Inhalation Ingestion.

Target organs No specific target organs known.

Medical considerations Skin disorders and allergies. Splash in eye requires examination by eye specialist.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC_{50} , 96 hours: 54,000 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC_{50} , 24 hours: > 10,000 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC_{50} , 48 hours: > 2,900 mg/l, *Scenedesmus subspicatus*

Acute toxicity - microorganisms

EC_{80} , 72 hours: > 10,000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log P_{ow} : - 1.76

12.4. Mobility in soil

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 9 of 10

Mobility The product is water-soluble and may spread in water systems. If product enters soil it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No adverse effects are expected

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contaminated packages must be completely emptied before sending away for laundering and re-use When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Collect and place in suitable waste disposal containers and seal securely. Empty containers

or liners may retain some product residues and hence be potentially hazardous. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses. Waste class Water hazard class 1

SECTION 14: Transport information

General: Not classified as hazardous for conveyance

14.1. UN number : Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es) : No transport warning sign required.

14.4. Packing group: Not applicable.

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not listed

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Health and Safety at Work etc. Act 1974 (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
Dangerous Substances and Explosive Atmospheres Regulations 2002.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 10 of 10

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII

Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII

Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Inventories

EU - EINECS/ELINCS

SECTION 16: Other information

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al. Registry of Toxic Effects of Chemical Substances (RTECS). ECHA

Risk phrases in full NC: Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 1 of 10

Revision date : 4.8.15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SCENIC COLOURS RED

Chemical name : Mixture

Product number BD23 Component

Synonyms; trade names

REACH registration

CAS number

EC number

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

Hobby modelling colouring mixture.

Uses advised against : This product is not recommended for any industrial, professional or consumer uses other than those identified above.

1.3. Details of the supplier of the safety data sheet

Supplier : Deluxe Materials Limited

Unit 13 Cufaude Business Park, Cufaude Lane

Bramley, Hampshire RG26 5DL

Tel. + 44 (0) 1256 883944

Fax.+ 44 (0) 1256 883966

Contact : info@deluematerials.com

1.4. Emergency telephone number: Emergency telephone +44(0) 1256 883944 (office hours only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Mixture

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Human health: Not classified as a health hazard according to CLP criteria

Environmental : Not considered as an environmental hazard according to CLP criteria

Physicochemical: Not considered as a physical hazard under CLP criteria

2.2. Label elements : No label elements.

EC number

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 2 Of 10

SECTION 3: Composition/information on ingredients: Mixture

3.1

Component	Reach Registration Number	CAS number	EC number	Chemical formula	%
Glycerine	01- 2119471987- 18-XXXX	56-81-5	200-289-5	C3H8O3	98.75 %
Mixture	Keyacid red				1.25%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea. Spray/mists may cause respiratory tract irritation.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause stomach pain or vomiting.

Diarrhoea. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 3 Of 10

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Nonalcohol resistant foam

5.2. Special hazards arising from the substance or mixture

Specific hazards Although not classed as flammable this product is combustible. May ignite at high temperature. Closed containers can burst violently when heated, due to excess pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Hazardous combustion products: Oxides of carbon. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Fight advanced or massive fires from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Take care as floors and other surfaces may become slippery. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Environmental Manager must be informed of all major spillages. Do not discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 4 of 10

Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid the spillage or runoff entering drains, sewers or watercourses.

Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene

Eye wash facilities and emergency shower must be available when handling this product.

Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Clean equipment and the work area every day. Contaminated clothing should be placed in a closed container for disposal or decontamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage. Storage tanks and other containers must be earthed. Keep away from food, drink and animal feeding stuffs. Only store in correctly labelled containers. Suitable container materials: Carbon steel. Mild steel. Stainless steel. Aluminium. Do not use containers made of the following materials: Zinc. May attack some plastics, rubber and coatings.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 5 of 10

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit

DNEL Industry - Inhalation; Long term systemic effects: 56 mg/m³

Consumer - Inhalation; Long term systemic effects: 33 mg/m³

Consumer - Oral; Long term systemic effects: 229 mg/kg/day

PNEC Industry - Fresh water; Long term 0.885 mg/l

Industry - Marine water; Long term 0.0885 mg/l

Industry - Intermittent release; Long term 8.85 mg/l

Industry - Sediment (Freshwater); Long term 3.3 mg/kg

Industry - Sediment (Marinewater); Long term 0.33 mg/kg

Industry - Soil; Long term 0.141 mg/kg

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Ensure the ventilation system is regularly maintained and tested. Use explosion-proof electrical, ventilating and lighting equipment. This product must not be handled in a confined space without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Neoprene. Nitrile rubber Butyl rubber. For short-term / splash

protection the following are recommended Polyvinyl alcohol (PVA). To protect hands from

chemicals, gloves should comply with European Standard EN374. The most suitable glove

should be chosen in consultation with the glove supplier/manufacturer, who can provide

information about the breakthrough time of the glove material.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 6 of 10

prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated clothing should be placed in a closed container for disposal or decontamination.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour: Red

Odour Odourless.

Melting point - 18.2° C

Initial boiling point and range 290° C @ 1013 hPa

Flash point 198° C CC (Closed cup).

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 2.7 % V Upper flammable/explosive limit: 19 % V

Vapour pressure 0.1 Pa @ 20° C

Bulk density 1.261 kg/l @ 20'C

Solubility(ies) Miscible with water. Soluble in the following materials: Organic solvents.

Partition coefficient log Pow: - 1.76

Auto-ignition temperature 370° C

Viscosity 1.42 Pa s @ 20° C

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 7 of 10

9.2. Other information

Refractive index 1.474

Molecular weight 92.09

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents. Strong acids. Strong alkalis.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Reacts with strong oxidising agents Reacts with strong acids Reacts with strong alkalis

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 12,600 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 18,700 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.75 mg/l/4hr/day, Inhalation, Guinea pig

Skin corrosion/irritation

Animal data Not classified as irritating to skin

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 8 of 10

Serious eye damage/irritation Not classified as irritating to eyes

Respiratory sensitisation Not classified as a respiratory sensitiser

Skin sensitisation Not classified as a skin sensitiser

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Not considered an aspiration hazard.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Vapours/aerosol spray may irritate the respiratory system. Vapours and spray/mists in high concentrations are narcotic.

Ingestion Gastrointestinal symptoms, including upset stomach. Symptoms following overexposure may include the following: Stomach pain. Diarrhoea. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards

This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry Inhalation Ingestion.

Target organs No specific target organs known.

Medical considerations Skin disorders and allergies. Splash in eye requires examination by eye specialist.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC_{50} , 96 hours: 54,000 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC_{50} , 24 hours: > 10,000 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC_{50} , 48 hours: > 2,900 mg/l, *Scenedesmus subspicatus*

Acute toxicity - microorganisms

EC_{80} , 72 hours: > 10,000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log P_{ow} : - 1.76

12.4. Mobility in soil

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 9 of 10

Mobility The product is water-soluble and may spread in water systems. If product enters soil it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No adverse effects are expected

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contaminated packages must be completely emptied before sending away for laundering and re-use When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Collect and place in suitable waste disposal containers and seal securely. Empty containers

or liners may retain some product residues and hence be potentially hazardous. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses. Waste class Water hazard class 1

SECTION 14: Transport information

General: Not classified as hazardous for conveyance

14.1. UN number : Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es) : No transport warning sign required.

14.4. Packing group: Not applicable.

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not listed

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Health and Safety at Work etc. Act 1974 (as amended).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Dangerous Substances and Explosive Atmospheres Regulations 2002.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 10 of 10

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII

Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII

Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Inventories

EU - EINECS/ELINCS

SECTION 16: Other information

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al. Registry of Toxic Effects of Chemical Substances (RTECS). ECHA

Risk phrases in full NC: Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 1 of 10

Revision date : 4.8.15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SCENIC COLOURS YELLOW

Chemical name : Mixture

Product number BD23 Component

Synonyms; trade names

REACH registration

CAS number

EC number

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

Hobby modelling colouring mixture.

Uses advised against : This product is not recommended for any industrial, professional or consumer uses other than those identified above.

1.3. Details of the supplier of the safety data sheet

Supplier : Deluxe Materials Limited

Unit 13 Cufaude Business Park, Cufaude Lane

Bramley, Hampshire RG26 5DL

Tel. + 44 (0) 1256 883944

Fax.+ 44 (0) 1256 883966

Contact : info@deluematerials.com

1.4. Emergency telephone number: Emergency telephone +44(0) 1256 883944 (office hours only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Mixture

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Human health: Not classified as a health hazard according to CLP criteria

Environmental : Not considered as an environmental hazard according to CLP criteria

Physicochemical: Not considered as a physical hazard under CLP criteria

2.2. Label elements : No label elements.

EC number

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 2 Of 10

SECTION 3: Composition/information on ingredients: Mixture

3.1

Component	Reach Registration Number	CAS number	EC number	Chemical formula	%
Glycerine	01- 2119471987- 18-XXXX	56-81-5	200-289-5	C3H8O3	98.75 %
Mixture	Acid Yellow				1.25%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea. Spray/mists may cause respiratory tract irritation.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause stomach pain or vomiting.

Diarrhoea. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 3 Of 10

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Nonalcohol resistant foam

5.2. Special hazards arising from the substance or mixture

Specific hazards Although not classed as flammable this product is combustible. May ignite at high temperature. Closed containers can burst violently when heated, due to excess pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Hazardous combustion products: Oxides of carbon. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Fight advanced or massive fires from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Take care as floors and other surfaces may become slippery. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Environmental Manager must be informed of all major spillages. Do not discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 4 of 10

Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid the spillage or runoff entering drains, sewers or watercourses.

Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene

Eye wash facilities and emergency shower must be available when handling this product.

Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Clean equipment and the work area every day. Contaminated clothing should be placed in a closed container for disposal or decontamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage. Storage tanks and other containers must be earthed. Keep away from food, drink and animal feeding stuffs. Only store in correctly labelled containers. Suitable container materials: Carbon steel. Mild steel. Stainless steel. Aluminium. Do not use containers made of the following materials: Zinc. May attack some plastics, rubber and coatings.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 5 of 10

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit

DNEL Industry - Inhalation; Long term systemic effects: 56 mg/m³

Consumer - Inhalation; Long term systemic effects: 33 mg/m³

Consumer - Oral; Long term systemic effects: 229 mg/kg/day

PNEC Industry - Fresh water; Long term 0.885 mg/l

Industry - Marine water; Long term 0.0885 mg/l

Industry - Intermittent release; Long term 8.85 mg/l

Industry - Sediment (Freshwater); Long term 3.3 mg/kg

Industry - Sediment (Marinewater); Long term 0.33 mg/kg

Industry - Soil; Long term 0.141 mg/kg

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Ensure the ventilation system is regularly maintained and tested. Use explosion-proof electrical, ventilating and lighting equipment. This product must not be handled in a confined space without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Neoprene. Nitrile rubber Butyl rubber. For short-term / splash

protection the following are recommended Polyvinyl alcohol (PVA). To protect hands from

chemicals, gloves should comply with European Standard EN374. The most suitable glove

should be chosen in consultation with the glove supplier/manufacturer, who can provide

information about the breakthrough time of the glove material.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 6 of 10

prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated clothing should be placed in a closed container for disposal or decontamination.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour: Yellow

Odour Odourless.

Melting point - 18.2° C

Initial boiling point and range 290° C @ 1013 hPa

Flash point 198° C CC (Closed cup).

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 2.7 % V Upper flammable/explosive limit: 19 % V

Vapour pressure 0.1 Pa @ 20° C

Bulk density 1.261 kg/l @ 20°C

Solubility(ies) Miscible with water. Soluble in the following materials: Organic solvents.

Partition coefficient log Pow: - 1.76

Auto-ignition temperature 370° C

Viscosity 1.42 Pa s @ 20° C

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 7 of 10

9.2. Other information

Refractive index 1.474

Molecular weight 92.09

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents. Strong acids. Strong alkalis.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Reacts with strong oxidising agents Reacts with strong acids Reacts with strong alkalis

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 12,600 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 18,700 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.75 mg/l/4hr/day, Inhalation, Guinea pig

Skin corrosion/irritation

Animal data Not classified as irritating to skin

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 8 of 10

Serious eye damage/irritation Not classified as irritating to eyes

Respiratory sensitisation Not classified as a respiratory sensitiser

Skin sensitisation Not classified as a skin sensitiser

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Not considered an aspiration hazard.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Vapours/aerosol spray may irritate the respiratory system. Vapours and spray/mists in high concentrations are narcotic.

Ingestion Gastrointestinal symptoms, including upset stomach. Symptoms following overexposure may include the following: Stomach pain. Diarrhoea. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards

This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry Inhalation Ingestion.

Target organs No specific target organs known.

Medical considerations Skin disorders and allergies. Splash in eye requires examination by eye specialist.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC_{50} , 96 hours: 54,000 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC_{50} , 24 hours: > 10,000 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC_{50} , 48 hours: > 2,900 mg/l, *Scenedesmus subspicatus*

Acute toxicity - microorganisms

EC_{80} , 72 hours: > 10,000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log P_{ow} : - 1.76

12.4. Mobility in soil

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 9 of 10

Mobility The product is water-soluble and may spread in water systems. If product enters soil it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No adverse effects are expected

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contaminated packages must be completely emptied before sending away for laundering and re-use When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Collect and place in suitable waste disposal containers and seal securely. Empty containers

or liners may retain some product residues and hence be potentially hazardous. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses. Waste class Water hazard class 1

SECTION 14: Transport information

General: Not classified as hazardous for conveyance

14.1. UN number : Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es) : No transport warning sign required.

14.4. Packing group: Not applicable.

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not listed

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Health and Safety at Work etc. Act 1974 (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
Dangerous Substances and Explosive Atmospheres Regulations 2002.

SAFETY DATA SHEET : BD23 SCENIC COLOURS

Page 10 of 10

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII

Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII

Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Inventories

EU - EINECS/ELINCS

SECTION 16: Other information

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al. Registry of Toxic Effects of Chemical Substances (RTECS). ECHA

Risk phrases in full NC: Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.