

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 09-Sep-2025 Revision Date 09-Sep-2025 Revision Number 6

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THECOMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Brilliant Blue G Solution

Cat No. : J63797

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific)

Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom

Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Flammable liquids Category 3 (H226)

Health hazards

Acute oral toxicityCategory 3 (H301)Acute dermal toxicityCategory 4 (H312)Acute Inhalation Toxicity - VaporsCategory 3 (H331)Skin Corrosion/IrritationCategory 1 (H314) A

Serious Eye Damage/Eye Irritation Category 1 (H318)

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Specific target organ toxicity - (single exposure)

Category 1 (H370)

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Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

H226 - Flammable liquid and vapor

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H370 - Causes damage to organs

H301 + H331 - Toxic if swallowed or if inhaled

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors Toxic to terrestrial vertebrates

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Component | CAS No | EC No | Weight % | GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|----------------|-----------|-----------|----------|--|
| Water | 7732-18-5 | 231-791-2 | 62.8 | - |
| Methyl alcohol | 67-56-1 | 200-659-6 | 30 | Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) |

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| Acetic acid | 64-19-7 | 200-580-7 | 7 | Flam. Liq. 3 (H226) Skin Corr. 1A (H314) |
|---------------------------------|-----------|-------------------|-----|---|
| | | | | Eye Dam. 1 (H318) |
| Brilliant blue G (Acid blue 90) | 6104-58-1 | EEC No. 228-058-4 | 0.2 | - |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|----------------|--|----------|-----------------|
| Methyl alcohol | STOT Single Exp. 1 :: >= 10 STOT Single Exp. 2 :: 3 - < 10 | - | - |
| Acetic acid | Skin Corr. 1A (H314) :: C>=90% Skin Corr. 1B (H314) :: 25%<=C<90% Eye Irrit. 2 (H319) :: 10%<=C<25% Skin Irrit. 2 (H315) :: 10%<=C<25% | - | - |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Inhalation If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh

air. Immediate medical attention is required.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

Causes burns by all exposure routes. Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

Notes to Physician Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

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5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and flame. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

Class 3

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|----------------|----------------------------------|------------------------------------|------------------------------------|
| Methyl alcohol | WEL - TWA: 200 ppm TWA; | TWA: 200 ppm 8 hr | TWA: 200 ppm 8 hr. |
| | 266 mg/m³ TWA | TWA: 260 mg/m ³ 8 hr | TWA: 260 mg/m ³ 8 hr. |
| | WEL - STEL: 250 ppm | Skin | STEL: 600 ppm 15 min |
| | STEL; 333 mg/m ³ STEL | | STEL: 780 mg/m ³ 15 min |
| | | | Skin |
| Acetic acid | STEL: 37 mg/m ³ | TWA: 25 mg/m³ (8h) | TWA: 20 ppm 8 hr. |
| | STEL: 15 ppm | TWA: 10 ppm (8h) | TWA: 50 mg/m ³ 8 hr. |
| | TWA: 10 ppm | STEL: 50 mg/m ³ (15min) | STEL: 20 ppm 15 min |
| | TWA: 25 mg/m ³ | STEL: 20 ppm (15min) | STEL: 50 mg/m ³ 15 min |

Biological limit values

List source(s):

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|----------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Methyl alcohol | | DNEL = 20mg/kg | | DNEL = 20mg/kg |
| 67-56-1 (30) | | bw/day | | bw/day |

| Component | Acute effects I | | | Chronic effects systemic (Inhalation) |
|-------------------------------|-----------------|------------------------------------|----------------------------|---------------------------------------|
| Methyl alcoho 67-56-1 (30 | | g/m ³ DNEL = 130 mg/r | m^3 DNEL = 130mg/ m^3 | DNEL = 130mg/m ³ |
| Acetic acid 64-19-7 (7) | DNEL = 25mg | /m³ | DNEL = 25mg/m ³ | |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|-----------|-------------|-------------|--------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | |

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| Methyl alcohol | PNEC = 20.8mg/L | PNEC = 77mg/kg | PNEC = 1540mg/L | PNEC = 100mg/L | PNEC = 100mg/kg |
|----------------|------------------|----------------|------------------|----------------|------------------|
| 67-56-1 (30) | _ | sediment dw | | | soil dw |
| Acetic acid | PNEC = 3.058mg/L | PNEC = | PNEC = 30.58mg/L | PNEC = 85mg/L | PNEC = 0.47mg/kg |
| 64-19-7 (7) | | 11.36mg/kg | | | soil dw |
| | | sediment dw | | | |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|----------------------------------|----------------------|-------------------------------------|---------------------------|------------|-----|
| Methyl alcohol 67-56-1 (30) | PNEC = 2.08mg/L | PNEC = 7.7mg/kg sediment dw | | | |
| Acetic acid 64-19-7 (7) | PNEC = 0.3058mg/L | PNEC = 1.136mg/kg sediment dw | | | |

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Viton (R) | See manufacturers | - | EN 374 | (minimum requirement) |
| | recommendations | | | |

Skin and body protection Long sleeved clothing.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls No information available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance

Odor No information available
Odor Threshold No data available
Melting Point/Range No data available
Softening Point No data available
Boiling Point/Range No information available

Flammability (liquid) Flammable On basis of test data

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Flash Point 9.7 °C / 49.5 °F Method - Regulation (EC) No. 440/2008, Annex,

Α.9

Autoignition Temperature
Decomposition Temperature
pH
Viscosity
Water Solubility
Solubility in other solvents
No data available
No information available
No information available
No information available

Partition Coefficient (n-octanol/water)

Componentlog PowMethyl alcohol-0.74Acetic acid-0.2Brilliant blue G (Acid blue 90)-2.55

Vapor Pressure No data available
Density / Specific Gravity No data available

Bulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

explosive air/vapour mixtures possible

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Oxidizing agent. Metals. Amines. Perchloric acid + aniline. Acid anhydrides. Reducing Agent. Alcohols. Peroxides. Potassium permanganate. Carbonates.

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Hydroxides.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

Oral Category 3
Dermal Category 4
Inhalation Category 3

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|--------------------------------|-------------------------------|-----------------------------|
| Water | - | - | - |
| Methyl alcohol | LD50 = 1187 – 2769 mg/kg (Rat) | LD50 = 17100 mg/kg (Rabbit) | LC50 = 128.2 mg/L (Rat) 4 h |
| Acetic acid | 3310 mg/kg (Rat) | - | > 40 mg/L (Rat) 4 h |

(b) skin corrosion/irritation; Category 1 A

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

| Component | Test method | Test species | Study result |
|----------------|-------------------------------------|--------------|-----------------|
| Methyl alcohol | OECD Test Guideline 406 | guinea pig | non-sensitising |
| 67-56-1 (30) | Guinea Pig Maximisation Test (GPMT) | | |

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

| Component | Test method | Test species / Duration | Study result |
|----------------|-------------------------|-------------------------|----------------|
| Methyl alcohol | OECD Test Guideline 416 | Rat / Inhalation | NOAEC = |
| 67-56-1 (30) | | 2 Generation | 1.3 mg/l (air) |

(h) STOT-single exposure; Category 1

Results / Target organs Optic nerve, Central nervous system (CNS).

(i) STOT-repeated exposure; No data available

Target Organs None known.

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(j) aspiration hazard; No data available

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity **Ecotoxicity effects**

Component Freshwater Fish Water Flea Freshwater Algae Methyl alcohol Pimephales promelas: LC50 > EC50 > 10000 mg/L 24h 10000 mg/L 96h EC50 = 95 mg/L/24h Acetic acid Pimephales promelas: LC50 = 88 mg/L/96h Lepomis macrochirus: LC50 = 75 mg/L/96h

| Component | Microtox | M-Factor |
|----------------|---|----------|
| Methyl alcohol | EC50 = 39000 mg/L 25 min | |
| - | EC50 = 40000 mg/L 15 min | |
| | EC50 = 43000 mg/L 5 min | |
| Acetic acid | Photobacterium phosphoreum: EC50 = 8.8 | |
| | mg/L/15 min | |
| | Photobacterium phosphoreum: EC50 = 8.8 | |
| | mg/L/25 min | |
| | Photobacterium phosphoreum: EC50 = 8.8 mg/L/5 | |
| | min | |

12.2. Persistence and degradability No information available

| Component | Degradability |
|----------------|----------------|
| Methyl alcohol | DT50 ~ 17.2d |
| 67-56-1 (30) | >94% after 20d |

12.3. Bioaccumulative potential No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|---------------------------------|---------|-------------------------------|
| Methyl alcohol | -0.74 | <10 dimensionless |
| Acetic acid | -0.2 | No data available |
| Brilliant blue G (Acid blue 90) | -2.55 | No data available |

No information available 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

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properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects
Persistent Organic Pollutant
Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic

organisms.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

<u>14.1. UN number</u> UN3286

14.2. UN proper shipping name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Technical Shipping Name (acetic acid, Methanol)

14.3. Transport hazard class(es)
Subsidiary Hazard Class
14.4. Packing group

Subsidiary Hazard Class
II

ADR

14.1. UN number UN3286

14.2. UN proper shipping name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Technical Shipping Name (acetic acid, Methanol)

14.3. Transport hazard class(es)
Subsidiary Hazard Class
14.4. Packing group

Subsidiary Hazard Class
II

IATA

14.1. UN number UN3286

14.2. UN proper shipping name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Technical Shipping Name (acetic acid, Methanol)

14.3. Transport hazard class(es)
Subsidiary Hazard Class
6.1, 8
14.4. Packing group

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14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk Not applicable, packaged goods

according to IMO instruments

SECTION 15: REGULATORY INFORMATION

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

International Inventories

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| | Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|-------|----------------------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| | Water | 7732-18-5 | 231-791-2 | ı | ı | X | X | KE-35400 | X | - |
| | Methyl alcohol | 67-56-1 | 200-659-6 | - | - | Х | X | KE-23193 | X | Х |
| | Acetic acid | 64-19-7 | 200-580-7 | - | - | Х | X | Х | Х | Х |
| Brill | iant blue G (Acid blue 90) | 6104-58-1 | 228-058-4 | - | - | Х | X | KE-06368 | X | Х |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|---------------------------------|-----------|------|---|-----|------|------|-------|-------|
| Water | 7732-18-5 | Х | ACTIVE | Х | - | Х | Х | Х |
| Methyl alcohol | 67-56-1 | Х | ACTIVE | Х | - | Х | Х | Х |
| Acetic acid | 64-19-7 | Х | ACTIVE | Х | - | X | Х | Х |
| Brilliant blue G (Acid blue 90) | 6104-58-1 | Х | ACTIVE | Х | - | Χ | Χ | Х |

Legend: X - Listed '-' - Not Listed **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---------------------------------|-----------|---|---|---|
| Water | 7732-18-5 | - | - | - |
| Methyl alcohol | 67-56-1 | - | Use restricted. See entry 69. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details) | - |
| Acetic acid | 64-19-7 | - | Use restricted. See entry 75. (see link for restriction details) | - |
| Brilliant blue G (Acid blue 90) | 6104-58-1 | - | - ' | - |

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

| Component CAS No Seveso III Directive (2012/18/EC) - Seveso III Directive (2012/18/EC) |
|--|
|--|

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| | | Qualifying Quantities for Major Accident Notification | Qualifying Quantities for Safety Report Requirements |
|-----------------------------|-----------|---|--|
| Water | 7732-18-5 | Not applicable | Not applicable |
| Methyl alcohol | 67-56-1 | 500 tonne | 5000 tonne |
| Acetic acid | 64-19-7 | Not applicable | Not applicable |
| Brilliant blue G (Acid blue | 6104-58-1 | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 2 (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|----------------|---------------------------------------|---|
| Methyl alcohol | WGK 2 | Class I: 20 mg/m³ (Massenkonzentration) |
| Acetic acid | WGK1 | Class II: 0.10 g/m³ (Massenkonzentration) |

| Component | France - INRS (Tables of occupational diseases) |
|----------------|--|
| Methyl alcohol | Tableaux des maladies professionnelles (TMP) - RG 84 |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|---------------------------------|--|---|--|
| Methyl alcohol | Prohibited and Restricted | Group I | |
| 67-56-1 (30) | Substances | | |
| Acetic acid | Prohibited and Restricted | Group I | |
| 64-19-7 (7) | Substances | | |
| Brilliant blue G (Acid blue 90) | Prohibited and Restricted | _ | |
| 6104-58-1 (0.2) | Substances | | |

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

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H314 - Causes severe skin burns and eve damage

H318 - Causes serious eve damage

H370 - Causes damage to organs

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H311 - Toxic in contact with skin

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances Substances List

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Prepared By Health, Safety and Environmental Department

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This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

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transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

End of Safety Data Sheet