

**NBS Biologicals**

BIO BASIC UK

Safety Data Sheet

Revised: 17th January 2020

SafeBLUE Protein Stain

NBS-SB1L

Section 1 Chemical Product and Company Information

Name: SafeBLUE Protein Stain
Product code: NBS-SB1L

Company: NBS Biologicals Ltd.
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Huntingdon
Cambridgeshire
PE29 7DT
United Kingdom

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Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP);
Eye Dam.1; H318

2.2 Labelling elements

Labelling according to the Regulation (EC) No. 1272/2008 (CLP);

Substance on the label:

(+)-Tartaric acid

Hazard Pictograms:



GHS05

Signal word: DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage.

Precautionary Statements:

P260 Do not breathe dust / fume / mist / spray.

P280 Wear protective gloves/protective clothing/eye protection.

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

P303+P361+P353 IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.

P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.

P338 Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P405 Store locked up.
 P501 Dispose of contents/container to disposal according to the national, regional and local regulations.

2.3 Other hazards:

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

Physical-chemical hazardous effects are unknown. On complains and symptoms as well as to harmful effects no data are available

This product does not contain any chemicals known to cause cancer or reproductive toxicity.

Section 3 Composition / Information on Ingredients

3.1 Substances: not relevant

3.2 Mixtures:

Chemical characterisation:

Aqueous solution of organic ingredients.

Chemical name	REACH Ref. No.	EC No.	CAS No.	Content	Classification
(+)-Tartaric acid [(2R,3R)-2,3- dihydroxybutane dioic acid]	01-2119537204- 47	201-766-0	87-69-4	10-20%	Eye Dam.1;H318
Ethanol (ethyl alcohol)	01-2119457610- 43	200-578-6	64-17-5	1-5%	Flam.Liq.2;H225 Eye Irrit.2;H319
Sodium benzoate	01-2119460683- 35	208-534-8	532-32-1	<0,1%	Eye Irrit.2;H319
Water	not available	231-791-2	7732-18-5	50->100%	Not Hazardous
Coomassie brillant blue*	01-2120065623- 57	228-058-4	6104-58-1	<0,01%	Not Hazardous

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call doctor immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate form this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapours, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances (see section 10).

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	SafeBLUE Reagent	None established	None established	None established

Engineering controls: Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses/goggles, lab coat/apron and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures.

Section 9 Physical & Chemical Properties

Appearance: Liquid, clear blue

Odour: None

Odour threshold: N/A

pH: Data not available

Melting/Freezing point: 0°C approx. (water)

Boiling point: 100°C approx. (water)

Flash point: Data not available

Evaporation rate (water=1): <1

Flammability (solid/gas): Data not available

Explosion limits (lower/upper): Data not available

Vapour density (air=1): 0.7 (water)

Vapour pressure (mm Hg): 14 (water)

Relative density (specific gravity): 1.0 approx. (water)

Solubility(ies): Complete in water

Partition coefficient: Data not available

Auto-ignition temperature: Data not available

Decomposition temperature: Data not available

Viscosity: Data not available

Molecular formula: Mixture

Molecular weight: Mixture

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerisation: Will not occur

Conditions to avoid: Excessive temperatures which cause evaporation

Incompatible materials: Strong oxidisers

Hazardous decomposition products: Carbon oxides

Section 11 Toxicological Information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitisation: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity:

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful by inhalation

Ingestion: May be harmful if swallowed

Skin: Contact may cause irritation

Eyes: Contact may cause irritation

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimise potential hazards.

Additional information: RTECS #: Data not available

Section 12 Ecological Information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalogue-size quantities only. Dispose of in accordance with all local and national regulations.

Section 14 Transport Information

14.1 UN number: 3265

14.2 UN proper shipping name:

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Tartaric acid)

14.3 Transport hazard class(es): 8 (C3) **Hazard label:** 8

14.4 Packaging group: II **Hazard number:** 80

14.5 Environmental hazards: refer to section 12 **Marine Pollutant:** no

14.6 Special precautions for user: refer to section 9

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not relevant

Transport category: 2

Tunnel code: E: Transit prohibited by category D and E tunnels with more than 8 tonnes of gross weight carried per transport unit.

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS classification
All components listed with the following agencies	Listed	Not listed	Not listed	Listed	Not listed	Not listed

Section 16 Additional Information

The information contained in this document is provided without warranty of any kind.

NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.