

1 Identification

- Product identifier
- Trade name: Brilliant Blue Ink
- Relevant identified uses of the substance or mixture and uses advised against
Currently no such applications are identified
- Application of the substance / the mixture
alcohol based permanent marking ink
Permanent Marker Ink
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Viscot Medical, LLC
32 West Street
East Hanove, NJ 07936
Tel.: 973-887-9273
- Information department:
Tel.: 973-887-9273 Fax: 973-887-3861
- Emergency telephone number:
Tel.: 973-887-9273

2 Hazard(s) identification

- Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02



GHS05



GHS07

- Signal word Danger
- Hazard-determining components of labeling:
propan-1-ol
C. I. Solvent Violet 8
C. I. Solvent Red 49
Solvent Blue 5
- Hazard statements
Highly flammable liquid and vapor.
Causes serious eye damage.
May cause drowsiness or dizziness.
- Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Wear eye protection / face protection.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

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Use only outdoors or in a well-ventilated area.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- HMS-ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

64-17-5	ethanol	25-50%
71-23-8	propan-1-ol	25-50%
84281-86-7	C. I. Solvent Violet 8	2.5-10%
1325-86-6	Splvent Blue 5	≤ 2.5%
509-34-2	C. I. Solvent Red 49	≤ 2.5%

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

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- Wear protective clothing.
- Environmental precautions:
 - Prevent seepage into sewage system, workpits and cellars.
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Ensure adequate ventilation.
- Reference to other sections
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- Handling:
 - Precautions for safe handling
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - Information about protection against explosions and fires:
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
 - Storage:
 - Requirements to be met by storerooms and receptacles: Store in a cool location.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions:
 - Keep receptacle tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
 - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

Components with limit values that require monitoring at the workplace:

64-17-5 ethanol (25-50%)	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
71-23-8 propan-1-ol (25-50%)	
PEL	Long-term value: 500 mg/m ³ , 200 ppm
REL	Short-term value: 625 mg/m ³ , 250 ppm
	Long-term value: 500 mg/m ³ , 200 ppm
	Skin
TLV	Long-term value: 246 mg/m ³ , 100 ppm

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
 - General protective and hygienic measures:
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes.
 - Breathing equipment:
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
 - Protection of hands:
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - Material of gloves
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

<ul style="list-style-type: none"> Information on basic physical and chemical properties General Information Appearance: <ul style="list-style-type: none"> Form: Fluid Color: According to product specification Odor: Product specific Odour threshold: Not determined. 	
<ul style="list-style-type: none"> Important information on protection of health and environment, and on safety. 	-
<ul style="list-style-type: none"> pH-value: 	Not determined.
<ul style="list-style-type: none"> Change in condition <ul style="list-style-type: none"> Melting point/Melting range: Undetermined. Boiling point/Boiling range: 78 °C (172 °F) Flash point: 13 °C (55 °F) Flammability (solid, gaseous): Not applicable. Ignition temperature: 360 °C (680 °F) Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. 	
<ul style="list-style-type: none"> Explosion limits: <ul style="list-style-type: none"> Lower: 2.1 Vol % Upper: 15.0 Vol % 	
<ul style="list-style-type: none"> Vapor pressure at 20 °C (68 °F): 59 hPa (44 mm Hg) 	
<ul style="list-style-type: none"> Density at 20 °C (68 °F): 0.846 g/cm³ (7.06 lbs/gal) Relative density: Not determined. Vapour density: Not determined. Evaporation rate: Not determined. 	
<ul style="list-style-type: none"> Solubility in / Miscibility with Water: Fully miscible. 	
<ul style="list-style-type: none"> Partition coefficient (n-octanol/water): Not determined. 	
<ul style="list-style-type: none"> Viscosity: <ul style="list-style-type: none"> Dynamic at 20 °C (68 °F): 3.1 mPas Kinematic: Not determined. Solvent content: <ul style="list-style-type: none"> Organic solvents: 77.1 % Solids content: 17.7 % Other information: No further relevant information available. 	

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

LD/LC50 values that are relevant for classification:

71-23-8 propan-1-ol

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rab)
Inhalative	LC50/4 h	9.8 mg/l (rat)

- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information




- UN-Number
- DOT, ADR, IMDG, IATA: UN1263
- UN proper shipping name
- DOT: Paint
- ADR: 1263 Paint
- IMDG, IATA: PAINT

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<ul style="list-style-type: none"> Transport hazard class(es) DOT 		<ul style="list-style-type: none"> Class Label 	<ul style="list-style-type: none"> 3 Flammable liquids 3
<ul style="list-style-type: none"> ADR 		<ul style="list-style-type: none"> Class Label 	<ul style="list-style-type: none"> 3 (F1) Flammable liquids 3
<ul style="list-style-type: none"> IMDG, IATA 		<ul style="list-style-type: none"> Class Label 	<ul style="list-style-type: none"> 3 Flammable liquids 3
<ul style="list-style-type: none"> Packing group DOT, ADR, IMDG, IATA 			<ul style="list-style-type: none"> II
<ul style="list-style-type: none"> Environmental hazards: Marine pollutant: 			<ul style="list-style-type: none"> No
<ul style="list-style-type: none"> Special precautions for user Danger code (Kemler): EMS Number: 			<ul style="list-style-type: none"> Warning: Flammable liquids 33 F-E,S-E
<ul style="list-style-type: none"> Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 			<ul style="list-style-type: none"> Not applicable.
<ul style="list-style-type: none"> Transport/Additional information: DOT Quantity limitations 			<ul style="list-style-type: none"> On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<ul style="list-style-type: none"> ADR Excepted quantities (EQ) 			<ul style="list-style-type: none"> Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> IMDG Limited quantities (LQ) Excepted quantities (EQ) 			<ul style="list-style-type: none"> 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> UN "Model Regulation": 			<ul style="list-style-type: none"> UN1263, Paint, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

64-17-5 ethanol

- DSL/NDSL (Canada) All ingredients are listed

- Carcinogenicity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

71-23-8 propan-1-ol

A4

- MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

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- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS02



GHS05



GHS07

- Signal word Danger

- Hazard-determining components of labeling:

propan-1-ol

C. I. Solvent Violet 8

C. I. Solvent Red 49

Solvent Blue 5

- Hazard statements

Highly flammable liquid and vapor.

Causes serious eye damage.

May cause drowsiness or dizziness.

- Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection.

Wear eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Use only outdoors or in a well-ventilated area.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:

- Technical instructions (air):

Class	Share in %
NK	50-100

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision

04/16/2015 / -

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International C
of Dangerous Goods by Road) arriage
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable Liquids, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
* Data compared to the previous version altered.

USA