

Speedball Flex Ink

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: August 3, 2023

According to: Regulation (EC) No. 1272/2008
Regulation (EC) No. 1907/2006

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: Speedball Flex Ink

Product Colors: Bright Plum, Lake Blue, Ebony, Chili Pepper, Mineral Blue, Alpine White, Spring Green, Canary, Mandarin, Cocoa Bean, Fuchsia

Product sizes: 4 fl. oz. (118 mL) - 128 fl. oz. (3.78 L)

Other Means of Identification

Unique Formula Identifier: Not required as the product is non-hazardous

Other: None known

Product Description: Water-based ink formulations intended to be applied using screen and a squeegee onto fabrics such as cotton, polyester, blends, linen, rayon, and synthetic fibers, as well as on paper and cardboard.

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

Relevant identified use(s): The product is intended for general (adults) arts and crafts purposes.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Speedball Europe
Villantipolis 5
473 route des Dollines
06560 Valbonne, France

Business Phone: +33 6 03 36 21 73

Email: europe@speedballart.eu

1.4 Emergency telephone number

Emergency Telephone: Transportation emergencies only: Infotrac 1-352-323-3500

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: Regulation (EC) No 1272/2008 [CLP]

	Health	Environment	Physical
Classification according to Regulation (EC) No 1272/2008 [CLP]	Not classified	Not classified	Not classified
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	N/A	N/A	N/A

2.2. Label elements

Label Pictogram: None

Signal Word: None

Hazard Statement: None

Precautionary Statement: None

Supplemental Hazard Information: None

2.3. Other hazards

- This product is not expected to be endocrine disrupting.
- This product is not expected to meet the criteria for vPvB or PBT in accordance with Regulation (EC) No. 1907/2006, Annex XIII.
- Mechanical irritation of the eyes and respiratory system may occur following exposure dusts.

Section 3 – Composition / Information on Ingredients

3.1 Substances

The product is a mixture and not a substance.

3.2 Mixtures

Chemical Name	CAS No.	EC No.	% Concentration ^a	GHS Hazards
Titanium dioxide	13463-67-7	236-675-5	up to 41.5577%	H351: Carcinogenicity (Category 2) (inhalation)
Propylidyntrimethanol	77-99-6	201-074-9	up to 0.4156%	H361: Reproductive toxicity (Category 2); (Suspected of damaging fertility or unborn child)
Carbon black	1333-86-4	643-032-6	up to 0.1075%	H351: Carcinogenicity (Category 2) (inhalation)
Polymeric alkoxylate	Proprietary	Proprietary	up to 4.1638%	H319: Eye irritation (Category 2A)

^a Concentrations are calculated as a maximum across all products, rather than by color.

The other ingredients in the product are either considered non-hazardous or are below their respective GHS cut-off values/concentration limits in the final product and were therefore not disclosed in the SDS.

The product may contain carbon black (CAS No. 1333-86-4), titanium dioxide (CAS No. 13463-67-7), and quartz (CAS No. 14808-60-7), which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.*, liquid), airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product.

This SDS was prepared under the assumption that several polymers contained in the final product are present as fully reacted/cured, high-molecular weight, and highly stable polymers with negligible residual monomers present (<0.1%). If this is not the case, reassessment of the product is required.

	Specific Concentration Limit	Multiplying-Factor	Acute Toxicity Estimate
Speedball Flex Ink	N/A	1	>2000 mg/kg (oral/dermal) >20 mg/L (inhalation)

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. Seek medical attention if in doubt.

Skin contact: No specific first aid measures are required. If irritation occurs, wash with plenty of water and soap. Take off contaminated clothing. If skin irritation persists: Get medical advice/attention.

Inhalation: No specific first aid measures are required. Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

Ingestion: No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to **Section 11 - Toxicological Information**.

4.3 Indication of any immediate medical attention and special treatment needed

- Not required.

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, foam, dry chemical or carbon dioxide).

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

- Irritating vapours or fumes may form if product is involved in fire:
- Also see **Section 10 - Stability and Reactivity**.

5.3 Advice for firefighters

- Wear a self-contained breathing apparatus to protect against potentially irritating vapours or fumes.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment (PPE) and emergency procedures

Personal Precautions: Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8 – Exposure Controls/Personal Protection**.

Emergency Procedures: Not available.

6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures: Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Ventilate contaminated area thoroughly. Dispose of contents/container in accordance with local/regional/national/international regulations.

6.4 Reference to other sections

- Refer to **Section 8 - Exposure Controls/Personal Protection** and **Section 13 – Disposal Considerations**.

Section 7– Handling and Storage

7.1 Precautions for safe handling

- Wash hands thoroughly after handling.
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Refer to **Section 8 - Exposure Controls/Personal Protection**.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed to avoid spills.
- Keep in a cool dry place.

7.3 Specific end use(s)

- Refer to **Section 1.2 - Relevant identified uses**.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

Occupational exposure limits: Only vapours were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

Chemical Name	CAS No.	ACGIH TLVs TWA	OSHA PELs TWA	NIOSH RELs TWA	DFG MAK TWA
Titanium dioxide	13463-67-7	10 mg/m ³	15 mg/m ³ ^a	N/A	0.3 mg/m ³ ^b R
Carbon black	1333-86-4	3 mg/m ³ ^c	3.5 mg/m ³	3.5 mg/m ³ 0.1 mg PAHs/m ³ ^d	N/A
^a Total ^b Respirable ^c Inhalable particulate matter			^d Carbon black in the presence of polycyclic aromatic hydrocarbons R Measured as respirable fraction of the aerosol N/A Not applicable		

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory: Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Eyes/Face: If contact is likely, safety glasses with side shields are recommended.

Hands: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.

Body/Skin: Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

Thermal Hazards: None known.

Environmental

Exposure

Controls: Not available.

Hygiene

measures:

Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: Physical state: Colour: Odour/Odour threshold:	Liquid See section 1.1 Not available	Partition Coefficient n-octanol/water:	Not available
Melting/freezing point:	Not available	pH (as supplied):	7 - 8
Boiling point and boiling range:	Not available	Solubility:	Not available
Flammability:	Not available	Kinematic viscosity:	Not available
Upper/lower explosive limits:	Not available	Vapour pressure:	Not available
Flash point:	Not available	Density:	Not available
Auto-ignition temperature:	Not available	Relative vapour density	Not available
Decomposition temperature:	Not available	Particle characteristics:	Not available

9.2.1 Information with Regard to Physical Hazard Classes

Explosives	Not available
Flammable gases	Not available
Aerosols	Not available
Oxidising gases	Not available
Gases under pressure	Not available
Flammable liquids	Not available
Flammable solids	Not available
Self-reactive substances and mixtures	Not available
Pyrophoric liquids	Not available
Pyrophoric solids	Not available
Self-heating substances and mixtures	Not available
Substances and mixtures, which emit flammable gases in contact with water	Not available
Oxidising liquids	Not available
Oxidizing solids	Not available
Organic peroxides	Not available
Corrosive to metals	Not available
Desensitised explosives	Not available

9.2.2 Other Safety Characteristics

Mechanical sensitivity	Not available
Self-accelerating polymerisation temperature	Not available
Formation of explosible dust/air mixtures	Not available
Acid/alkaline reserve; (e) evaporation rate	Not available
Miscibility	Not available
Conductivity	Not available
Corrosiveness	Not available
Gas group	Not available
Redox potential	Not available
Radical formation potential	Not available
Photocatalytic properties	Not available

Section 10 – Stability and Reactivity

10.1 Reactivity

- This material is not considered to be reactive under normal handling and storage conditions.

10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- Not expected to occur under normal handling and storage conditions.

10.4 Conditions to avoid

- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

10.5 Incompatible materials

- Strong acids
- Strong bases
- Strong oxidisers
- Strong reducing agents.

10.6 Hazardous decomposition products

- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

Section 11 – Toxicological Information

11.1. Information on hazard classes:

Likely routes of exposure: Skin contact.

Potential signs and symptoms: None expected under conditions of normal use.

Acute oral toxicity:	The product is practically non-toxic based on available animal and human use data. ATE >2000 mg/kg
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. ATE >2000 mg/kg
Acute inhalation toxicity:	The product is practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	The components of this product at >1% are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	Polymeric alkoxyate (Proprietary) has been classified for eye irritation (Category 2A). Product classification is not warranted based on the concentration present in the product. The other components of this product at >1% are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	The product contains 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5) at <0.005%. Product classification for skin sensitization or a supplemental warning are not warranted given the concentration of 1,2-benzisothiazolin-3-one in the product. The other components in this product at >0.1% are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The components in the product at >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.

Carcinogenicity:	Titanium dioxide (CAS No. 13463-67-7) (airborne, unbound particles of respirable size) and carbon black (CAS No. 1333-86-4) (airborne, unbound particles of respirable size) have been classified for carcinogenicity (Category 2). Product classification is not warranted based on a review of available data and the nature/physical form of the product (<i>i.e.</i> , liquid). Titanium dioxide and carbon black are listed as Group 2B by IARC. Titanium dioxide and carbon black are also listed as carcinogens by NTP and ACGIH. The other components in the product at >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.
Reproductive Toxicity:	Propylidynetrimethanol (CAS No. 77-99-6) has been classified for reproductive toxicity (Category 2). Product classification is not warranted based on the concentration present in the product. The other components in the product at >0.1% are not reproductive toxicants based on animal studies or no data identified for the components in this product.
Specific target organ toxicity (single exposure):	The components in the product at >1% are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product.
Specific target organ toxicity (repeated exposure):	The components in the product at >1% are not specific target organ toxicity (repeated exposure) toxicants based on animal studies or no data identified for the components in this product.
Aspiration hazard:	The components in the product at >1% are not aspiration hazards based on animal studies or no data identified for the components in this product.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting

11.2.2 Information on other hazards

- No other hazards to note.

References:

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database.

<https://echa.europa.eu/search-for-chemicals>

IARC (International Agency for Research on Cancer). 2023. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>

NTP (National Toxicology Program). 2023. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc14>

Section 12 – Ecological Information

12.1 Toxicity

- This product is not expected to be harmful or toxic to aquatic life.

12.2 Persistence and degradability

- No data available for the other components of the product.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in Soil

- No data available.

12.5 Results of PBT and vPvB assessment

- No data available.

12.6 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting.

12.7 Other adverse effects

- No further data available.

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Dispose of waste in accordance with local, regional, national, and/or international regulations. The empty container has residues which may exhibit hazards of the product.

Contaminated Packaging: Container packaging is not expected to exhibit hazards.

Section 14 – Transport Information

Note: This product is not regulated as dangerous goods for transport.

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es):	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Section 15 – Regulatory Information

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

Note: The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in **Section 3 – Composition / Information on Ingredients**.

European Union

Seveso Directive (2012/18/EU): Ethylene oxide (CAS No. 75-21-8) is listed. No other components in this product are listed.

Regulation (EC) No. 1005/2009, Annex I and II: No components in this product are listed.

Regulation (EU) No. 649/2012, Annex I, Parts I-III: Benzene (CAS No. 71-43-2), ethylene oxide (CAS No. 75-21-8), arsenic (CAS No. 7440-38-2), cadmium (CAS No. 7440-43-9), and mercury (CAS No. 7439-97-6) are listed. No other components in this product are listed.

Regulation (EU) No. 2019/1021, Annex I: No components in this product are listed.

Germany:

Wassergefährdungsklasse (water hazard class): WGK 1 – Schwach wassergefährdend.

International:

IARC: Benzene (CAS No. 71-43-2), ethylene oxide (CAS No. 75-21-8), arsenic (CAS No. 7440-38-2), beryllium (CAS No. 7440-41-7), cadmium (CAS No. 7440-43-9), nickel (CAS No. 7440-02-0), and hexavalent chromium (CAS No. 7440-47-3) are listed as Group 1, carcinogenic to humans. 2-Methoxyaniline (CAS No. 90-04-0), styrene (CAS No. 100-42-5), antimony (CAS No. 7440-36-0) and lead (CAS No. 7439-92-1) are listed as Group 2A, probably carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7), crystalline silica (silica dust, crystalline, in the form of quartz or cristobalite) (CAS No. 14808 60-7), carbon black (CAS No. 1333-86-4), 1,4-dioxane (CAS No. 123-91-1), hexachlorobenzene (CAS No. 118-74-1), acetaldehyde (CAS No. 75-07-0), ethyl acrylate (CAS No. 140-88-5), cobalt (CAS No. 7440-48-4), and vanadium (CAS No. 7440-62-2) are listed as Group 2B, possibly carcinogenic to humans. Polyacrylic acid (CAS No. 79-10-7), Pigment Red 3 (CAS No. 2425-85-6), and mercury (CAS No. 7439-97-6) are listed as Group 3, not classifiable as to its carcinogenicity to humans. No other components in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the components in this product.

Section 16 – Other Information

An **AP (Approved Product)** label is appropriate for this product. The product, *Speedball Flex Ink*, is safe and is certified to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.



List of acronyms and abbreviations:

ACGIH: American conference of Governmental Hygienists	PBT: Persistent, Bioaccumulative and Toxic
ATE: Acute Toxicity Estimate	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CLP: Classification, Labelling and Packaging Regulation (EC) No. 1272/2008	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatz-Konzentration	REL: Recommended exposure level
EC: European Commission	SDS: Safety Data Sheet
ECHA: European Chemicals Agency	STOT RE: Specific target organ toxicity (repeated exposure)
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
IMO: International Maritime Organization	UN: United Nations
NIOSH: National Institute for Occupational Safety & Health	vPvB: very Persistent, very Bioaccumulative
NTP: National Toxicology Program	WGK: Wassergefährdungsklasse
OSHA: Occupational Safety and Health Administration	

References:

- ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>
- IARC (International Agency for Research on Cancer). 2023. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>
- NTP (National Toxicology Program). 2023. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc14>

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Revision Indicator: This is a new Safety Data Sheet.

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