Speedball Water-Soluble Block Printing Ink

SAFETY DATA SHEET (SDS)

Version: 03
Date of Issue: September 22, 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 Water-Soluble Block Printing Ink (Black, Red, Blue, White, Green, Yellow, Brown, Orange, Violet, Turquoise, Magenta, Light Red, Dark Yellow, Gold, Silver, Pewter, Copper, Platinum White, Fluorescent Lime Green, Fluorescent Hot Pink, Fluorescent Orange, Fluorescent Magenta, Fluorescent Yellow, Fluorescent Blue, Process Cyan, Process Magenta, Process Yellow, Pearlescent Base, Retarder, Extender, Cornsilk, Leaf Green, Bluestone)
Product sizes: 37 mL (1.25 fl. oz.), 75 mL (2.5 fl. oz.), 148 mL (5 fl. oz.), 237 mL (8 fl. Oz)
Other Means of Identification: None known
Product Description: Coloured liquid ink formulations intended for arts and crafts purposes.

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

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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 Mixture

Chemical Name	CAS No.	EC No.	% Concentration	GHS Hazards
Titanium dioxide	13463-67-7	236675-5	up to 26.85%	H351: Carcinogenicity (Category 2) (inhalation)
Styrene acrylic resin solution	Proprietary	-	up to 4.63%	H320: Eye irritation (Category 2B)
Talc[a]	14807-96-6	238-877-9	up to 2.33%	-
Sodium nitrate	7631-99-4	231-554-3	up to 2.03%	H319: Eye irritation (Category 2)
Distillates petroleum hydrotreated light	64742-47-8	265-149-8	up to 1.32%	H304: Aspiration toxicity (Category 1)
Crystalline silica	14808-60-7	238-878-4	up to 0.72%	H350: Carcinogenicity (Category 1) (Inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)
Propylidynetrimethanol	77-99-6	201-074-9	up to 0.22%	H361: Reproductive toxicity (Category 2); (Suspected of damaging fertility or unborn child)

[a] Assessment of the product, was based on the assumption that the talc used in the product contains <0.1% asbestos fibers. If this is not the case, reassessment of the product is required.

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.

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

	Specific Concentration Limit	Multiplying-Factor	Acute Toxicity Estimate
Speedball Water-Soluble Block Printing 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 TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAK
Talc	14807-96-6	2 mg/m^3	2 mg/m^3	2 mg/m^3 and <1% quartz	-
Titanium dioxide	13463-67-7	10 mg/m^3	15 mg/m^3	-	0.3 mg/m^3
Carbon black	1333–86–4	3.5 mg/m^3	3.5 mg/m^3	3.5 mg/m^3	
Crystalline silica	14808-60-7	0.025 mg/m^3	0.05 mg/m^3	0.05 mg/m^3	-

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:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	7 - 8	**Decomposition temperature:**	Not available
Melting/freezing point:	Not available	**Dynamic viscosity:**	Not available
Boiling point/range:	Not available	**Molecular weight:**	Not available
Flash point:	Not available	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not available	**Oxidizing properties:**	Not available
Upper/lower explosive limits:	Not available	**Surface tension:**	Not available
Vapor pressure:	Not available	**Volatile component:**	Not available
Water solubility:	Not available	**Gas group:**	Not available
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not available
Specific gravity (Water = 1):	1.21 - 1.45	**VOC:**	Not available
Relative density:	Not available	**Particle size range:**	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

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 >1% of this product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	Sodium nitrate (CAS No. 631-99-4) and styrene acrylic resin solution (proprietary) have been classified for eye irritation. The other components of this product >1% are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	The components in this product >0.1% are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The components in the product >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.
Carcinogenicity:	Respirable titanium dioxide (CAS No. 13463-67-7) (airborne, unbound particles of respirable size) is listed in Group 2B by IARC. Respirable crystalline silica (CAS No. 14808-60-7) (listed as silica dust, crystalline, in the form of quartz or cristobalite) is listed in Group 1 by IARC. Titanium dioxide and crystalline silica are also listed as carcinogens by NTP and ACGIH. The other components in the product >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) is classified for reproductive toxicity. The other components in the product >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 >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 >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:	Distillates petroleum hydrotreated light (CAS No. 64742-47-8) is classified for aspiration toxicity. The other components in the product >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 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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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**.

European Union

Seveso Directive (2012/18/EU): Ammonia (CAS No. 7664-41-7), ethylene oxide (CAS No. 75-21-8), propylene oxide (CAS No. 75-56-9), arsenic (CAS No. 7440-38-2), beryllium (CAS No. 7440-41-7), and nickel (CAS No. 7440-47-3) are listed. Formaldehyde (CAS No. 50-00-0) (listed as formaldehyde, concentration ≥ 90%) is listed; however, does not meet concentration requirement and therefore this listing does not apply. 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 (EC) No. 689/2008, Annex I, Parts I-III: Ethylene oxide (Oxirane) (CAS No. 75-21-8), hexachlorobenzene (CAS No. 118-74-1), arsenic (CAS No. 7440-38-2), cadmium (CAS No. 7440-43-9), and mercury (CAS No. 7439-97-5) 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: Crystalline silica (particles of respirable size) (CAS No.14808-60-7), is listed as Group 1, carcinogenic to humans. Carbon black (CAS No. 1333-86-4) and titanium dioxide (CAS No. 13463-67-7) are listed as Group 2B, possibly carcinogenic to humans. Product classification is not warranted based on the nature of the product. Talc (CAS No. 14807-96-6), ethylene oxide (CAS No. 75-21-8), formaldehyde (CAS No. 50-00-0), arsenic (CAS No. 7440-38-2), beryllium (CAS No. 7440-41-7), cadmium (CAS No. 7440-43-9), and chromium (CAS No.7440-47-3) are listed as Group 1, carcinogenic to humans. Styrene (CAS No.100-42-5) and 2 methoxyaniline (CAS No.90-04-0) are listed as Group 2A, probably carcinogenic to humans. Propylene oxide (CAS No. 75-56-9), 1,4-dioxane (CAS No. 123-91-1), ethyl acrylate (CAS No. 140-88-5), acetaldehyde (CAS No. 75-07-0), hexachlorobenzene (CAS No. 118-74-1), 3,3'-dichlorobenzidin (CAS No. 91-94-1), antimony (CAS No. 1309-64-4), cobalt (CAS No. 7440-48-4), lead (CAS No. 7439-92-1), nickel (CAS No. 7440-47-3), vanadium (CAS No. 1314-62-1), and methyl isobutyl ketone (CAS No. 108-10-1) are listed as Group 2B, possibly carcinogenic to humans. Red iron oxide (CAS No.1309-37-1), 2-butoxyethanol (CAS No. 111-76-2), talc not containing asbestos or asbestiform fibers (CAS No. 14807-96-6), basic Red 1 (CAS No. 989-38-8), C.I. Basic Violet 10 (CAS No.81-88-9), and mercury (CAS No. 7439-97-5) are classified 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.

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

Section 16 – Other Information

List of acronyms and abbreviations:

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

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.

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