Speedball Studio Plus Glazes

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue:February 23, 2026

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 Studio Plus Glazes
Product Colors (SKUs):	Frost, Cherry, Tangerine, Bumblebee, Dandelion, Kale, Arctic Blue, Ube, Mint, Dusk Blue, Infinite Blue, Pear, Onyx, Punch Pink, Lavender, Rich Brown, Blue Jeans, Crimson, Cerulean (50F030), Glacier (50F031), Dark Granite (50F033), Cream Soda (50F034), Morning Fog (50F038), Avernturine (50F039)
Product sizes:	2 oz – 128 oz
Product Description:	Colored liquid glaze formulations intended to be applied with a brush, then placed in a kiln for glaze firing.

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: Contact the local poison control centre.

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:	H371: Specific target organ toxicity (single exposure, Category 2 - gastrointestinal tract irritation) H360f: Reproductive toxicity (Category 1B – may damage fertility)	H411: Hazardous to the aquatic environment – long term (chronic) hazard (Category 2)	Not classified
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	Weight of evidence	Weight of evidence	Weight of evidence

2.2. Label elements

Label Pictogram:
Signal Word: Danger
Hazard Statement & Precautions:

Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract) (H371)	**May cause irritation to gastrointestinal tract through oral exposure.** **P260**: Do not breathe mist/vapour/spray. **P264:** Wash hands thoroughly after handling. **P270:** Do not eat, drink or smoke when using this product. **P308 + P311:** IF exposed or concerned: Call a POISON CENTER/ doctor. **P405**: Store locked up. **P501**: Dispose of contents/container in accordance with local/regional/national/ and/or international regulations.
Reproductive toxicity (Category 1B) (H360f)	**May damage fertility.** **P201:** Obtain special instructions before use. **P202:** Do not handle until all safety precautions have been read and understood. **P280:** Wear protective gloves and face protection. **P308 + P313:** IF exposed or concerned: Get medical advice/attention. **P405:** Store locked up. **P501**: Dispose of contents/container in accordance with local/regional/national/international regulations.
Chronic aquatic toxicity (Category 2) (H411)	**Toxic to aquatic life with long lasting effects.** **P273:** Avoid release to the environment. **P391:** Collect spillage. **P501:** Dispose of contents/container in accordance with local, regional, national, and/or international regulation.

Supplemental Hazard Information: None

2.3. Other hazards

- The product is not expected to be an endocrine disruptor.
- The product is not expected to meet vPvB or PBT criteria in accordance with Regulation (EC) No. 1907/2006, Annex XIII.
- No other hazards have been identified for this product.

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 [a]	GHS Hazards
Crystalline silica	14808-60-7	238-878-4	up to 16.13%	H350: Carcinogenicity (Category 1A) (inhalation) H372: Specific target organ toxicity (repeated exposure, Category 1 - causes damage to lungs through prolonged or repeated exposure)

Cobalt carbonate	513-79-1	208-169-4	up to 0.94%	H317: Skin sensitization (Category 1) H334: Respiratory sensitization (Category 1) H341: Mutagenicity (Category 2) H350: Carcinogenicity (Category 1B) (inhalation) H361f: Reproductive toxicity (Category 1B – may damage fertility) H400: Acute aquatic toxicity (Category 1) H410: Chronic aquatic toxicity (Category 1)
Copper carbonate	12069-69-1	235-113-6	up to 1.42%	H302: Acute oral toxicity (Category 4) H319: Eye irritation (Category 2) H332: Acute inhalation toxicity (Category 4) H371: Specific target organ toxicity (single exposure, Category 2 - gastrointestinal tract irritation) H400: Acute aquatic toxicity (Category 1) H410: Chronic aquatic toxicity (Category 1)
Zinc oxide	1314-13-2	215-222-5	up to 0.86%	H371: Specific target organ toxicity (single exposure, Category 2 - gastrointestinal tract irritation) H400: Acute aquatic toxicity (Category 1) H410: Chronic aquatic toxicity (Category 1)
Black nickel oxide	1313-99-1	215-215-7	up to 0.88%	H317: Skin sensitization (Category 1) H350: Carcinogenicity (Category 1A) (inhalation) H372: Specific target organ toxicity (repeated exposure, Category 1 – causes damage to lungs through prolonged or repeated exposure) H413: Chronic aquatic toxicity (Category 4)

[a] Concentration is calculated as a maximum across all colors, 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 contains crystalline silica (CAS No. 14808-60-7), titanium dioxide (CAS No. 13463-67-7), black nickel oxide (CAS No. 1313-99-1), wollastonite (CAS No. 13983-17-0) and tremolite (non-asbestos) (CAS No. 14567-73-8), which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.,* liquid glaze), airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product. It was assumed that the glaze will not be sanded after it has been fired in the kiln.

	Specific Concentration Limit	**Multiplying-Factor**	**Acute Toxicity Estimate**
Speedball Studio Plus Glazes	N/A	N/A	>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. If irritation occurs, remove contact lenses if present and easy to do – rinse eyes with water. If eye irritation persists: Get medical advice/attention.

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: 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: IF SWALLOWED: Get emergency medical help immediately. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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 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.

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.
- Wear protective gloves and face protection.
- Do not breathe mist/vapour/spray
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- 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.
- Collect spillage.
- Store locked up.

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
Crystalline silica	14808-60-7	0.025 mg/m^3 *	50 mg/m^3 [25 µg/m^3 Action level]	0.05 mg/m^3	N/A
Zinc oxide	1314-13-2	2 mg/m^3 *	5 mg/m^3	5 mg/m^3	N/A
N/A – Not applicable		* Respirable particulate matter			

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:** **Color:** **Odor/Odor threshold:**	 Liquid See **Section 1.1** Not available	**Partition Coefficient** **n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	7.0 – 8.0	**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):	Not available	**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

11.1. Information on hazard classes:

Likely routes of exposure: Skin contact, incidental ingestion.
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. Oral ATE >2000 mg/kg
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. Dermal ATE >2000 mg/kg
Acute inhalation toxicity:	The product is practically non-toxic based on available animal and human use data.
Skin corrosion/irritation:	The ingredients >1% in the product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	Copper carbonate (CAS No. 12069-69-1) has been classified for eye irritation (Category 2). Product classification is not warranted for eye irritation given the concentration of copper carbonate present in the product. The other ingredients >1% in the product are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	Cobalt carbonate (CAS No. 513-79-1) has been classified for skin and respiratory sensitization (Category 1). Black nickel oxide (CAS No. 1313-99-1) has been classified for skin sensitization (Category 1). Product classification is not warranted for these effects given the concentration of cobalt carbonate and black nickel oxide present in the product. The other ingredients >0.1% in the product are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	Cobalt carbonate (CAS No. 513-79-1) has been classified for mutagenicity (Category 2). Product classification is not warranted given the concentration of cobalt carbonate present in the product. The other ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
Carcinogenicity:	Crystalline silica (CAS No. 14808-60-7) (airborne, unbound particles of respirable size) and black nickel oxide (CAS No. 1313-99-1) have been classified for carcinogenicity (Category 1A). Cobalt carbonate (CAS No. 513-79-1) has been classified for carcinogenicity (Category 1B). Crystalline silica (listed as silica dust, crystalline, in the form of quartz or cristobalite) is listed as Group 1 by IARC. Crystalline silica is also listed as a carcinogen by NTP and ACGIH. Product classification is not warranted for carcinogenicity based on a review of available data and the nature/physical form of the product (*i.e.,* liquid glaze). The other ingredients >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.
Reproductive Toxicity:	Cobalt carbonate (CAS No. 513-79-1) has been classified for reproductive toxicity (Category 1B – may damage fertility). Product classification is warranted for reproductive toxicity given the concentration of cobalt carbonate in the product. The other ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.
Specific target organ toxicity (single exposure):	Copper carbonate (CAS No. 12069-69-1) and zinc oxide (CAS No. 1314-13-2) have been classified for specific target organ toxicity (single exposure, Category 2 – gastrointestinal tract irritation). Product classification is warranted for specific target organ toxicity given the concentration of copper carbonate present in the product. The other ingredients >1% in the product are not specific target organ toxicity (single exposure) toxicants based on human and/or animal studies.

Specific target organ toxicity (repeated exposure):	Crystalline silica (CAS No. 14808-60-7) and black nickel oxide (CAS No. 1313-99-1) have been classified for specific target organ toxicity (repeated exposure, Category 1 - causes damage to lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity based on a review of available data and the nature/physical form of the product (*i.e.,* liquid glaze). The other ingredients >1% are not specific target organ toxicity (repeated exposure) toxicants based on human and/or animal studies.
Aspiration hazard:	The ingredients >1% in the product are not aspiration hazards based on human and/or animal studies.

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). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/
IARC (International Agency for Research on Cancer). 2025. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/
NTP (National Toxicology Program). 2021. 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/roc15

Section 12 – Ecological Information

12.1 Toxicity

- The product is classified for chronic aquatic toxicity (Category 2).

Chemical Name	CAS No.	Species	Value
Cobalt carbonate	513-79-1	*Oncorhynchus mykiss*	LC_{50}: 0.8 mg Co/L
		Pimephales promelas	EC_{10}: 350 µg Co/L
		Ceriodaphnia dubia	LC_{50}: 0.386 mg Co/L
		Hyalella azteca	NOEC: 7.55 µg Co/L
Copper carbonate	12069-69-1	-	LC_{50}: 34.4 µg Cu/L
			NOEC: 14.9 µg Cu/L
Zinc oxide	1314-13-2	*Raphidocelis Subcapitata* *Pseudokirchneriella subcapitata*	ERV (acute): pH 6.08: 308 µg Zn/L pH 8.0: 41 µg Zn/L ERV (chronic): pH 6.0: 118 µg Zn/L pH 8.0: 11 µg Zn/L

12.2 Persistence and degradability

- Cobalt carbonate (CAS No. 513-79-1), copper carbonate (CAS No. 12069-69-1) and zinc oxide (CAS No. 1314-13-2) are metals/inorganic substances. Testing is not conducted for inorganic substances.

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.

References:

ECHA (European Chemicals Agency). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Waste should not be disposed of by release to sewers. Dispose of waste in accordance with local, regional, national, and/or international regulations.

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

Section 14 – Transport Information

Note: This product is regulated as dangerous goods for transport.

14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es):	9
14.4 Packing group	III
14.5 Environmental hazards	Chronic aquatic toxicity (Category 2)
14.6 Special precautions for user	274, 331, 335, 375, 601
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**.

European Union

Seveso Directive (2012/18/EU): No ingredients in this product are listed.
Regulation (EC) No. 2024/590, Annex I and II: No ingredients in this product are listed.
Regulation (EC) No. 689/2008, Annex I, Parts I-III: No ingredients in this product are listed.
Regulation (EC) No. 850/2004, Annex I: Cadmium is listed. No other ingredients in this product are listed.

Germany:

Wassergefährdungsklasse (water hazard class): WGK 2 – wassergefährdend (hazardous to water)

International:

IARC: Crystalline silica (listed as silica dust, crystalline, in the form of quartz or cristobalite) (CAS No. 14808-60-7), and formaldehyde (CAS No. 50-00-0) are listed as Group 1, carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7) is listed as Group 2B, possibly carcinogenic to humans. Silica, amorphous (CAS No. 7631-86-9) and wollastonite (CAS No. 13983-17-0) are listed as Group 3, not classifiable as to its carcinogenicity to humans. No other ingredients in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the ingredients in this product.

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American conference of Governmental Hygenists	NOEC: No Observed Effect Concentration
CAS: Chemical Abstract Service Number	NTP: National Toxicology Program
CLP: Classification, Labelling and Packaging Regulation (EC) No. 1272/2008	OSHA: Occupational Safety and Health Administration
DFG MAK: Deutsche Forschungsgemeinschaf Maximale Arbeitsplatz-Konzentration	PBT: Persistent, Bioaccumulative and Toxic
EC: European Commission	PEL: Permissible Exposure Level
EC_{50}: Median effective concentration	PPE: Personal Protective Equipment
ECHA: European Chemicals Agency	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
ERV: Ecotoxicity Reference Value	REL: Recommended exposure level
IBC: International Bulk Chemical	SDS: Safety Data Sheet
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
LC_{50}: Lethal Concentration 50%	UN: United Nations
MARPOL: Maritime Pollution	vPvB: very Persistent, very Bioaccumulative
NIOSH: National Institute for Occupational Safety & Health	WGK: Wassergefährdungsklasse

References:

ECHA (European Chemicals Agency). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/
IARC (International Agency for Research on Cancer). 2025. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/
NTP (National Toxicology Program). 2021. 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/roc15

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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