

# Speedball Calligraphy Brush Markers

## SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: March 14, 2024

According to: OSHA Hazard Communication Standard  
29 CFR 1910.1200(g) Rev. 2012

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

#### 1.1 Product identifier

Product Name: Speedball Calligraphy Brush Markers  
Product Colors: Black  
Product sizes: 1.5 g ink per marker  
Other Means of Identification: None known  
Product Description: Colored liquid ink formulation contained within a non-polycarbonate plastic casing for general use (adult) 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 Art Products Company, LLC  
2301 Speedball Rd  
Statesville, NC 28677  
USA  
Business Phone: +1 (704) 838-1475

#### 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: OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2012

Physical	Health	Environmental
Not classified	Not classified	Not classified

#### 2.2. Label elements

Label Pictogram: None  
Signal Word: None  
Hazard Statement: None  
Precautionary Statement: None

#### 2.3. Other hazards

- None

## Section 3 – Composition / Information on Ingredients

### 3.1 Substance

The product is a mixture and not a substance.

### 3.2 Mixture

Chemical Name	CAS No.	EC No.	% Concentration	GHS Hazards
Carbon black	1333-86-4	215-609-9	8.00%	H351: Carcinogenicity (Category 2) (inhalation)
3-Iodo-2-propynylbutylcarbamate	55406-53-6	259-627-5	0.10%	H302: Acute oral toxicity (Category 4) H318: Eye damage (Category 1) H317: Skin sensitization (Category 1) H331: Acute inhalation toxicity (Category 3) H372: Specific target organ toxicity (repeated exposure, Category 1 – larynx) H400: Acute aquatic toxicity (Category 1) H410: Chronic aquatic toxicity (Category 1)

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 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.

This SDS was prepared under the assumption that acrylic resin (CAS No. 25767-39-9) in the final product is present as a fully reacted/cured, high-molecular weight, and highly stable polymer with negligible residual monomers present (<0.1%). If this is not the case, reassessment of the product is required.

## 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. If eye irritation persists, contact medical advise/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:** 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:** No specific precautions required. Keep unauthorized personnel away.

### 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
Carbon black	1333-86-4	N/A	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup> *	N/A
N/A – Not applicable			* 0.1mg/m <sup>3</sup> in presence of polycyclic aromatic hydrocarbons		

### 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.

<b>Respiratory:</b>	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.
<b>Eyes/Face:</b>	If contact is likely, safety glasses with side shields are recommended.
<b>Hands:</b>	Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
<b>Body/Skin:</b>	Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
<b>Thermal Hazards:</b>	None known.
<b>Environmental Exposure Controls:</b>	Not available.
<b>Hygiene measures:</b>	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.

<b>Appearance:</b>			
<b>Physical state:</b>	Liquid	<b>Partition Coefficient n-octanol/water:</b>	Not available
<b>Color:</b>	Black	<b>Auto-ignition temperature:</b>	Not available
<b>Odor/Odor threshold:</b>	None	<b>Decomposition temperature:</b>	Not available
<b>pH (as supplied):</b>	8.5	<b>Dynamic viscosity:</b>	Not available
<b>Melting/freezing point:</b>	Not available	<b>Molecular weight:</b>	Not available
<b>Boiling point/range:</b>	Not available	<b>Taste:</b>	Not available
<b>Flash point:</b>	Not available	<b>Explosive properties:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Oxidizing properties:</b>	Not available
<b>Flammability:</b>	Not available	<b>Surface tension:</b>	31.5
<b>Upper/lower explosive limits:</b>	Not available	<b>Volatile component:</b>	Not available
<b>Vapor pressure:</b>	Not available	<b>Gas group:</b>	Not available
<b>Water solubility:</b>	Not available	<b>pH (as solution):</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available	<b>VOC:</b>	Not available
<b>Specific gravity (Water = 1):</b>	1.1	<b>Particle size range:</b>	≤120nm
<b>Relative density:</b>	1.1		

## 9.2 Other information

- No further data 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, incidental ingestion.

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

<b>Acute oral toxicity:</b>	3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) has been classified for acute oral toxicity (Category 4); however, product classification is not required based on the concentration of 3-iodo-2-propynylbutylcarbamate and given the product ATE >5000 mg/kg.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on available animal and human use data. ATE >5000 mg/kg.
<b>Acute inhalation toxicity:</b>	3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) has been classified for acute inhalation toxicity (Category 3); however, product classification is not required based on the concentration of 3-iodo-2-propynylbutylcarbamate in the product.
<b>Skin corrosion/irritation:</b>	The ingredients >1% in the product are not skin irritants based on human and/or animal studies.
<b>Serious eye damage/irritation:</b>	3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) has been classified for eye damage (Category 1); however, product classification is not warranted based on the concentration of 3-iodo-2-propynylbutylcarbamate in the product. The other ingredients >1% in the product are not eye irritants based on human and/or animal studies.

<b>Respiratory or skin sensitization:</b>	3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) has been classified for skin sensitization (Category 1); however, product classification is not warranted based on the concentration of 3-iodo-2-propynylbutylcarbamate in the product. The other ingredients >0.1% in the product are not sensitizing to the skin based on human and/or animal studies.
<b>Mutagenicity:</b>	The ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
<b>Carcinogenicity:</b>	Carbon black (CAS No. 1333-86-4) (airborne, unbound particles of respirable size) has 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 ink). Carbon black is listed as a carcinogen by NTP and ACGIH. The other ingredients in the product at >0.1% in the product are not carcinogenic based on animal studies or no data identified for the ingredients in this product.
<b>Reproductive Toxicity:</b>	The ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.
<b>Specific target organ toxicity (single exposure):</b>	The ingredients >1% in the product are not specific target organ toxicity (single exposure) toxicants based on human and/or animal studies.
<b>Specific target organ toxicity (repeated exposure):</b>	3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) has been classified for specific target organ toxicity (repeated exposure, Category 1 - larynx). Product classification is not warranted for specific target organ toxicity based on a review of available data and the concentration of 3-iodo-2-propynylbutylcarbamate in the product. The other ingredients >1% in the product are not specific target organ toxicity (repeated exposure) toxicants based on human and/or animal studies.
<b>Aspiration hazard:</b>	The ingredients >1% in the product are not aspiration hazards based on human and/or animal studies.

**References:**

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>  
IARC (International Agency for Research on Cancer). 2024. 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/roc14>

**Section 12 – Ecological Information**

**12.1 Toxicity**

Chemical Name	CAS No.	Species	Value
3-Iodo-2-propynylbutylcarbamate	55406-53-6	Rainbow trout	LC <sub>50</sub> (24h): >120 µg/L LC <sub>50</sub> (48h): 97 µg/L LC <sub>50</sub> (72h): 83 µg/L LC <sub>50</sub> (96h): 67 µg/L LOAEC (96h): 49 µg/L
		Fathead Minnow	NOEC: 8.4 µg/L
		<i>Daphnia magna</i>	LC <sub>50</sub> (48h): 0.645 mg/L
		<i>Daphnia magna</i>	NOEC (21d): 49.9 µg/L
		<i>Scenedesmus subspicatus</i>	EC <sub>50</sub> (72h): 53 µg/L EC <sub>10</sub> / NOEC (72h): 4.6 µg/L
		Aerobic wastewater microorganisms	EC <sub>50</sub> (3h): 44 mg/L NOEC (3h): 45 mg/L

## 12.2 Persistence and degradability

- 3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) is not persistent and rapidly degrades in water, the anaerobic and aerobic sediment layers, and soil.
- 3-Iodo-2-propynylbutylcarbamate is not readily biodegradable but inherently biodegradable. Therefore, it is not considered to be persistent in the environment.
- No data available for the other ingredients in the product.

## 12.3 Bioaccumulative potential

- 3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) is unlikely to bioaccumulate. The estimated log  $K_{ow}$  is 2.8.
- No data available for the ingredients in the product.

## 12.4 Mobility in Soil

- 3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) adsorbs to soil in moderate amounts ( $K_{oc}=309$ ).
- No data available for the other ingredients in the product.

## 12.5 Results of PBT and vPvB assessment

- The ingredients in this product are not considered PBT or vPvB.

## 12.6 Other adverse effects

- No further data available.

### References:

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.  
<https://echa.europa.eu/search-for-chemicals>

## 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.

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

#### United States

##### **Federal Regulations:**

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** No ingredients in this product >0.1% are subject to reporting under CERCLA.

**Clean Water Act (CWA):** No ingredients in this product are listed as toxic pollutants.

**Clean Air Act (CAA):** No ingredients in this product are listed under the CAA.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA 302 Components:** No ingredients in this product are subject to reporting requirements of S.302.

**SARA 304 Emergency Release Notification:** No ingredients in this product are subject to reporting requirements of S.304.

**SARA 311/312 Hazards:** None.

**SARA 313 Components:** 3-Iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) is subject to reporting requirements of S.313. No other ingredients in this product are subject to reporting requirements of S.313.

**Toxic Substances Control Act (TSCA):** All of the ingredients are listed on the non-confidential TSCA inventory or are exempt.

**State Regulations:**

**California Candidate Chemicals List:** Carbon black (CAS No. 1333-86-4) is listed on California's Candidate Chemicals List. No other ingredients in this product are listed on the Candidate Chemicals List.

**California Proposition 65 List:** Carbon black (airborne particles of respirable size) (CAS No. 1333-86-4) is listed on the Proposition 65 List; however, given the nature/physical form of the product (*i.e.*, liquid ink), airborne respirable particles would not likely be released from this product and therefore the listed form of carbon black is not relevant for the product.

**Maine List of Chemicals of High Concern:** Given the product is not considered to be a toy and is not intended for use by children, the List of Chemicals of High Concern is not applicable to the product.

**Massachusetts Toxic or Hazardous Substance List:** No ingredients in this product are listed on the Toxic or Hazardous Substance List.

**Minnesota Chemicals of High Concern List and Priority List:** Carbon black (CAS No. 1333-86-4) is listed on the Chemicals of High Concern and Priority list. No other ingredients in this product are listed on the Chemicals of High Concern and Priority list.

**New Jersey Right to Know Hazardous Substance List:** Glycerol (CAS No. 56-81-5), carbon black (CAS No. 1333-86-4), triethanolamine (CAS No. 102-71-6) and 3-iodo-2-propynylbutylcarbamate (CAS No. 55406-53-6) are listed on the Right to Know Hazardous Substance List. No other ingredients are listed on the Right to Know Hazardous Substance List.

**Pennsylvania Hazardous Substance List:** Glycerol (CAS No. 56-81-5), carbon black (CAS No. 1333-86-4), and triethanolamine (CAS No. 102-71-6) are listed on the Hazardous Substance List. No other ingredients in this product are listed on the Hazardous Substance List.

**Vermont Chemicals of High Concern to Children:** Given the product is not considered to be a toy and is not intended for use by children, the Chemicals of High Concern to Children list is not applicable to the product.

**Washington Chemicals of High Concern to Children:** Given the product is not considered to be a toy and is not intended for use by children, the Chemicals of High Concern to Children list is not applicable to the product.

**International:**

**IARC:** Carbon black (CAS No. 1333-86-4) is listed as Group 2B, possibly carcinogenic to humans. Triethanolamine (CAS No. 102-71-6) is 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

An **AP (Approved Product)** label is appropriate for this product. The product, *Speedball Calligraphy Brush Markers*, 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	NIOSH: National Institute for Occupational Safety & Health
ATE: Acute Toxicity Estimate	NOEC: No Observed Effect Concentration
CAA: Clean Air Act	OSHA: Occupational Safety and Health Administration
CAS: Chemical Abstract Service Number	PBT: Persistent, Bioaccumulative and Toxic
CERCLA: Comprehensive Environmental Response and Liability Act	PEL: Permissible Exposure Level
CFR: Code of Federal Regulations	PPE: Personal Protective Equipment
CWA: Clean Water Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatz-Konzentration	REL: Recommended exposure level
EC: European Commission	RQ: Reportable quantity
ECHA: European Chemicals Agency	SARA: Superfund Amendment and Reauthorization Act
GHS: Global Harmonized System	SDS: Safety Data Sheet
HEPA: High Efficiency Particulate Air	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
IBC: International Bulk Chemical	TSCA: Toxic Substances Control Act
LOAEC: Lowest Observed Adverse Effect Level	UN: United Nations
MARPOL: Maritime Pollution	vPvB: very Persistent, very Bioaccumulative

**References:**

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.

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

IARC (International Agency for Research on Cancer). 2024. 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/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.

**Creation Date:** May 15, 2024