Speedball Diazo Sensitizer

SAFETY DATA SHEET (SDS)

Version: 02
Date of Issue: **April 23, 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 Diazo Sensitizer
Product sizes:	1 g – 8 g
Other Means of Identification:	None known
Product Description:	Powder formulation intended to be used with the Speedball Daizo Photo Emulsion to create a negative-working photosensitizer for printing plates and silkscreens.

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
Email: customerservice@speedballart.com

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	H315: Skin Irritation (Category 2) H319: Eye Irritation (Category 2) H335: Specific Target Organ Toxicity (Single Exposure, Category 3 – may cause respiratory irritation)	Not classified

2.2. Label elements



Label Pictogram:
Signal Word: Warning

Hazard statement & Precautions:

Eye irritation (Category 2) (H319)	**Causes serious eye irritation.** **P264+P265**: Wash hands thoroughly after handling. Do not touch eyes. **P280**: Wear eye protection/face protection. **P305+P351+P338**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P337+P317**: IF eye irritation persists: Get medical help.
Skin irritation (Category 2) (H315)	**Causes skin irritation.** **P264**: Wash hands thoroughly after handling. **P280**: Wear protective gloves. **P302+P352:** IF ON SKIN: Wash with plenty of water. **P321:** Specific treatment: seek medical attention. **P332+P317**: If skin irritation occurs: Get medical help. **P362+P364**: Take off contaminated clothing and wash it before reuse.
Specific Target Organ Toxicity (Category 2) (H335)	**May cause respiratory irritation.** **P261**: Avoid breathing dust. **P271**: Use only outdoors or in adequate ventilation. **P304+P340**: IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P319**: Get medical help if you feel unwell. **P403+P233**: Store in a well-ventilated place. Keep container tightly closed. **P405**: Store locked up. **P501**: Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Hazard Information: None

2.3. Other hazards

- No other hazards have been identified for this product.

Section 3 – Composition / Information on Ingredients

3.1 Substance

Chemical Name	CAS No.	EC No.	% Concentration	GHS Hazards
4-Diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex	68988-17-0	-	100%	H315: Skin irritation (Category 2) H319: Eye irritation (Category 2) H335: Specific target organ toxicity (single exposure, Category 3, may cause respiratory irritation)

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

3.2 Mixture

The product is a substance and not a mixture.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. IF eye irritation persists: Get medical advice/attention. Seek medical attention if in doubt.

Skin contact: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs get medical help. Launder contaminated clothing before reuse.

Inhalation: Inhaling dust may cause discomfort in the chest, respiratory irritation, shortness of breath and coughing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

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

Emergency Procedures: Evacuate personnel to safe areas.

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. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. 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: Airborne particles, such as dust, are foreseeable under conditions of normal use.

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. In case of dust formation use a respirator with an approved filter.

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:	Use appropriate respiratory protection when handling to minimize exposure to dust particles. 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. An eyewash bottle or station should be available in the workplace. Wear a face shield if splash or spray is likely.
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:**	 Dry powder **Yellow-Green** Odorless to Slightly Pungent	**Partition Coefficient n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	Not available	**Decomposition temperature:**	Not available
Melting/freezing point:	Decomposes	**Dynamic viscosity:**	Not available
Boiling point/range:	Decomposes	**Molecular weight:**	Not available
Flash point:	> 83.33 °C	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not available	**Oxidizing properties:**	Reacts with oxidizing agents
Upper/lower explosive limits:	Not available	**Surface tension:**	Not available
Vapor pressure:	Not established	**Volatile component:**	Not available
Water solubility:	Soluble	**Gas group:**	Not available
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not available
Specific gravity (Water = 1):	0.6 g/cm3	**VOC:**	Not available
Relative density:	Not available	**Particle size range:**	Not available

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

11.1 Likely routes of exposure: Skin contact, inhalation.
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 >5000 mg/kg.
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. ATE >5000 mg/kg.
Acute inhalation toxicity:	The product is practically non-toxic based on available animal and human use data.
Skin corrosion/irritation:	4-Diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex (CAS No. 68988-17-0) may cause skin irritation (Category 2). Product classification is warranted for this effect given the concentration of 4-diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex in the product.
Serious eye damage/irritation:	4-Diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex (CAS No. 68988-17-0) may cause eye irritation (Category 2). Product classification is warranted for this effect given the concentration of 4-diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex in the product.
Respiratory or skin sensitization:	The ingredients in this product at >0.1% are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The ingredients in the product at >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.
Carcinogenicity:	The ingredients 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:	The ingredients 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):	4-Diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex (CAS No. 68988-17-0) may cause specific target organ toxicity (single exposure, Category 3, may cause respiratory irritation). Product classification is warranted for this effect given the concentration of 4-diazodiphenylamine / formaldehyde condensate hydrogen sulfate zinc chloride complex in the product.
Specific target organ toxicity (repeated exposure):	The ingredients in this product at >1% are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Aspiration hazard:	The ingredients in the product at >1% are not aspiration hazards based on animal studies or no data identified for the components in this product.

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

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

12.2 Persistence and degradability

- No data available for the 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.

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.

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**.

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: No ingredients in this product are subject to reporting requirements of S.313.

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

State Regulations:

California Candidate Chemicals List: No ingredients in this product are listed on the Candidate Chemicals List.
California Proposition 65 List: No ingredients in this product are listed on the California Proposition 65 List.
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: No ingredients in this product are listed on the Chemicals of High Concern and Priority list.
New Jersey Right to Know Hazardous Substance List: No ingredients are listed on the Right to Know Hazardous Substance List.
Pennsylvania Hazardous Substance List: No 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: No 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

ACMI Seal

The product, *Speedball Diazo Sensitizer,* must be properly labeled for the known health risks [*i.e.,* skin and eye irritation (Category 2) and specific target organ toxicity (single exposure, Category 3, may cause respiratory irritation)] and should reflect the ACMI CL Seal.



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
CAA: Clean Air Act	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CERCLA: Comprehensive Environmental Response and Liability Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CFR: Code of Federal Regulations	REL: Recommended exposure level
CWA: Clean Water Act	RQ: Reportable quantity
DFG MAK: Deutsche Forschungsgemeinschaf Maximale Arbeitsplatz-Konzentration	SARA: Superfund Amendment and Reauthorization Act
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
HEPA: High Efficiency Particulate Air	TWA: Time-weighted average
IARC: International Agency for Research on Cancer	TSCA: Toxic Substances Control Act
IBC: International Bulk Chemical	UN: United Nations
MARPOL: Maritime Pollution	vPvB: very Persistent, very Bioaccumulative
NIOSH: National Institute for Occupational Safety & Health	

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.

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