

# Speedball Diazo Sensitizer

## SAFETY DATA SHEET (SDS)

Version: 01  
Date of Issue: February 05, 2021

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 Description: A thick paste intended to be mixed with water and *Speedball Diazo Photo Emulsion* for screen printing and general arts and crafts purposes.

#### 1.2 Relevant identified uses of the substance or mixture

Relevant identified use(s): Use product for its intended purpose as a screen-printing medium.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: MRI International  
PO Box 42  
Swartwood, NJ 07877 U.S.A.  
Business Phone: 973-383-3645 FAX: 973-383-6672  
Email: INFO@MRI-DIAZO.COM

#### 1.4 Emergency telephone number

Emergency Telephone: 973-383-3645

### Section 2 – Hazard(s) Identification

#### 2.1. Classification of the substance or mixture

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

| Health  | Environmental  | Physical       |
|---|----------------|----------------|
| Eye Irritation (Category 2), H319<br>Skin Irritation (Category 2), H315 | Not classified | Not classified |

#### 2.2. Label elements

Label Pictogram:



Signal Word: Warning

## Hazard Statements and Precautionary Statements:

|                                     |  |
|-------------------------------------|--|
| <b>Eye Irritation (Category 2)</b>  | <b>Causes serious eye irritation (H319)</b><br>Wash hands thoroughly after handling (P264)<br>Wear protective gloves/protective clothing/eye protection/face protection (P280)<br>IF ON SKIN: wash with plenty of water (P302+P352)<br>Specific treatment (see section 4: First Aid Measures) (P321)<br>IF SKIN irritation occurs: Get medical advice/attention (P332+P313)<br>Take off contaminated clothing (P362) |
| <b>Skin Irritation (Category 2)</b> | <b>Causes skin irritation (H315)</b><br>Wash hands thoroughly after handling (P264)<br>Wear protective gloves/protective clothing/eye protection/face protection (P280)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. (P305+P351+P338)<br>IF eye irritation persists: Get medical advice/attention (P337+P313)                 |

### 2.3. Other hazards

- No other hazards have been identified for this product.

## Section 3 – Composition / Information on Ingredients

### Mixture

| <u>Chemical Name</u>   | <u>CAS No.</u> | <u>EINECS No.</u> | <u>% Weight</u> |
|--|----------------|-------------------|-----------------|
| 4-Diazodiphenylamine /<br>formaldehyde condensate<br>hydrogen phosphate complex<br>(P-diazoldiphenylamine polymer) | 71550-45-3     | N/A               | up to 90%       |
| Phosphoric acid  | 7664-38-2      | 231-633-2         | ≤1%             |

This SDS was prepared under the assumption that the ingredient 4-diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex (P-diazoldiphenylamine polymer) (CAS No. 71550-45-3) is present in the final product as fully reacted/cured, high-molecular weight, and highly stable polymers with negligible residual monomers present (<0.1%).

## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do - continue rinsing. IF eye irritation persists: Get medical advice/attention.

**Skin contact:** IF ON SKIN: wash with plenty of water and soap. IF SKIN irritation occurs: Get medical advice/attention. Take off contaminated clothing.

**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:** 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

- May be irritating to skin and eyes
- 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:
  - Carbon dioxide
  - Carbon monoxide
  - Nitrogen oxides
- See also **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:** 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. Product may be mixed with sand, earth or neutralizing media. Rinse the spill area with warm water after material pick-up is completed. Collect recoverable product and place in a designated container for disposal. Dispose of contents/container and wash water 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.
- Do not eat, drink or smoke when using this product.
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Sinks and eye wash stations should be available in the work area.
- 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.
- Protect from direct sunlight.

- Keep in original container.
- Keep chemicals locked up or in an area accessible to only qualified personnel.

### 7.3 Specific end use(s)

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

## Section 8– Exposure Controls / Personal Protection

### 8.1 Control Parameters:

| Chemical Name  | CAS No.    | % Weight  | Agency | Limit Type                         |
|--|------------|-----------|--------|------------------------------------|
| 4-Diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex (P-diazodiphenylamine polymer) | 71550-45-3 | up to 90% | N/A    | N/A                                |
| Phosphoric acid  | 7664-38-2  | ≤1%       | ACGIH  | 1 mg/m <sup>3</sup> TWA (8 hr)     |
|  |            |           | EU ELV | 2 mg/ m <sup>3</sup> STEL (15-min) |

### 8.2 Exposure Controls:

#### Appropriate engineering controls

- Use ventilation or other engineering controls to maintain airborne concentrations below exposure limits.
- Minimize contact with eyes, skin and clothing by using good hygiene practices.
- Sinks and eyewash stations should be available in the work area.

### 8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE.

**Respiratory:** No specific respiratory protection is required. If ventilation is inadequate, use an approved respirator such as a High Efficiency Particulate Air (HEPA) respirator and filter cartridge authorized by regulatory standards.

**Eyes/Face:** Wear chemical safety goggles approved by appropriate regulatory standards.

**Hands/Skin:** Wear chemical resistant gloves (neoprene). If necessary, refer to appropriate regulatory standards.

**Body:** Wear protective clothing. If necessary, refer to appropriate regulatory standards.

**Thermal Hazards:** None known.

**Environmental Exposure Controls:** Not available.

## 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><br><b>Physical state:</b><br><b>Colour:</b><br><b>Odour/Odour threshold:</b> | Viscous oily resin<br>Dark brown<br>Slightly pungent odour, no threshold available | <b>Partition Coefficient n-octanol/water:</b><br><b>Auto-ignition temperature:</b> | No data available<br>None, product is not combustible |
| <b>pH (as supplied):</b>  | No data available  | <b>Decomposition temperature:</b>  | No data available                                     |
| <b>Melting/freezing point:</b>  | Decomposes   | <b>Dynamic viscosity:</b>  | No data available                                     |
| <b>Boiling point/range:</b>   | >93.3°C decomposes   | <b>Molecular weight:</b>   | No data available                                     |
| <b>Flash point:</b>   | None, not  | <b>Taste:</b>  | No data available                                     |

|                                      |                   |                              |                           |
|--------------------------------------|-------------------|------------------------------|---------------------------|
|                                      | combustible       |                              |                           |
| <b>Evaporation rate:</b>             | No data available | <b>Explosive properties:</b> | No data available         |
| <b>Flammability:</b>                 | No data available | <b>Oxidizing properties:</b> | No data available         |
| <b>Upper/lower explosive limits:</b> | No data available | <b>Surface tension:</b>      | No data available         |
| <b>Vapor pressure:</b>               | Not established   | <b>Volatile component:</b>   | No data available         |
| <b>Water solubility:</b>             | Infinite          | <b>Gas group:</b>            | No data available         |
| <b>Vapor density (Air = 1):</b>      | No data available | <b>pH (as solution):</b>     | No data available         |
| <b>Specific gravity (Water = 1):</b> | 1.3               | <b>VOC:</b>                  | 0.0 g/L (excluding water) |
| <b>Relative density:</b>             | No data available | <b>Particle size range:</b>  | No data available         |

## 9.2 Other information

No further data available.

## Section 10 – Stability and Reactivity

### 10.1 Reactivity

- Reacts with oxidizing agents.

### 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 heat and light.

### 10.5 Incompatible materials

- Strong oxidizing agents.
- Strong alkalis.

### 10.6 Hazardous decomposition products

- Hazardous decomposition products including but not limited to carbon monoxide, carbon dioxide, and nitrogen oxides may be released under fire conditions.

## Section 11 – Toxicological Information

**Likely routes of exposure:** Skin contact.

**Potential signs and symptoms:** Direct contact with skin or eyes may cause irritation if product is not used as intended.

|                                       |  |
|---------------------------------------|--|
| <b>Acute oral toxicity:</b>           | Practically non-toxic based on the polymer composition of the product.   |
| <b>Acute dermal toxicity:</b>         | Practically nontoxic based on the polymer composition of the product.  |
| <b>Acute inhalation toxicity:</b>     | Insufficient and/or no data identified for the components in this product.   |
| <b>Skin corrosion/irritation:</b>     | 4-Diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex (P-diazoldiphenylamine polymer) (CAS No. 71550-45-3) and phosphoric acid (CAS No. 7664-38-2) may cause skin irritation based on animal studies and human data. Symptoms include redness, heat, swelling, and pain. The other component of this product is not a skin irritant.                               |
| <b>Serious eye damage/irritation:</b> | 4-Diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex (P-diazoldiphenylamine polymer) (CAS No. 71550-45-3) and phosphoric acid (CAS No. 7664-38-2) may cause eye irritation based on animal studies and human data. Symptoms include red or pink eyes, burning, light sensitivity, itchiness and pain. The other component of this product is not a skin irritant. |

|  |  |
|--|--|
| <b>Respiratory or skin sensitization:</b>                  | The components in this product are not sensitizing to the skin based on human and/or animal studies.   |
| <b>Mutagenicity:</b>                                       | The components in the product are not mutagenic based on animal studies or no data identified for the components in this product.  |
| <b>Carcinogenicity:</b>                                    | The components in the product are not carcinogenic based on animal studies or no data identified for the components in this product.   |
| <b>Reproductive Toxicity:</b>                              | The components in the product are not reproductive toxicants based on animal studies or no data identified for the components in this product.                                       |
| <b>Specific target organ toxicity (single exposure):</b>   | The components in the product are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product.   |
| <b>Specific target organ toxicity (repeated exposure):</b> | The components in the product are not specific target organ toxicity (repeated exposure) toxicants based on animal studies or no data identified for the components in this product. |
| <b>Aspiration hazard:</b>                                  | The components in the product are not aspiration hazards based on animal studies or no data identified for the components in this product.   |

**References:**

ECHA. 2020. REACH Registered Substances Database.

## Section 12 – Ecological Information

### 12.1 Toxicity

- This product is not expected to be harmful or toxic to aquatic life. See ecotoxicity data below.

| Chemical Name   | CAS No.   | Species          | Test Results (mg/L)    |
|-----------------|-----------|------------------|------------------------|
| Phosphoric acid | 7664-38-2 | Freshwater algae | 72-hour EC50 = 100     |
|                 |           | Freshwater algae | 72-hour NOEC = 100     |
|                 |           | Activated sludge | 3-hour EC50= 1000 mg/L |

### 12.2 Persistence and degradability

- Phosphoric acid (CAS No. 7664-38-2) biodegradation in water: ready biodegradability.
- No data available for other components of the product.

### 12.3 Bioaccumulative potential

- Phosphoric acid (CAS No. 7664-38-2) has bioaccumulative potential in fish.
- No data available for other components of the product.

### 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. 2020. REACH Registered Substances Database.

## 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.

## Section 14 – Transport Information

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

|  |                |
|--|----------------|
| <b>14.1 UN number</b>  | Not classified |
| <b>14.2 UN proper shipping name</b>  | Not classified |
| <b>14.3 Transport hazard class(es):</b>  | Not classified |
| <b>14.4 Packing group</b>  | Not classified |
| <b>14.5 Environmental hazards</b>  | None           |
| <b>14.6 Special precautions for user</b>   | None           |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable |

## Section 15 – Regulatory Information

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

#### United States

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

##### **Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):**

| <b>Chemical Name</b> | <b>CAS No.</b> | <b>Reportable Quantity (lbs.)</b> |
|----------------------|----------------|-----------------------------------|
| Phosphoric acid      | 7664-38-2      | 5,000                             |

No other components in this product are subject to reporting under CERCLA.

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

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

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

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

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

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

**SARA 313 Components:** No components 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:** The ingredients in the product are not listed on the California Proposition 65 List.

**Maine:** The ingredients are not listed on the Maine list of chemicals of High Concern.

**Massachusetts:** The ingredients are not listed on the Massachusetts Toxic or Hazardous Substances list.

**Michigan:** The ingredients are not listed on the Michigan Chemicals of Concern list.

**Minnesota:** Phosphoric acid (CAS No. 7664-38-2) is on the list of Chemicals of High Concern (2019). The other ingredients in the product are not listed.

**New Jersey:** Phosphoric acid (CAS No. 7664-38-2) is on the Right to Know Hazardous Substances List. The other ingredients in the product are not listed.

**Pennsylvania:** Phosphoric acid (CAS No. 7664-38-2) is on the Right to Know List. The other ingredients in the product are not listed.

**Vermont:** The ingredients are not listed on the Chemicals of High Concern to Children list.

**Washington:** The ingredients are not listed on the Chemicals of High Concern to Children list.

## **International**

**IARC:** None of the 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 Industrial Hygienists | mg/ m3: Milligrams per meter cubed  |
| ATE: Acute Toxicity Estimate                                     | OSHA: Occupational Safety and Health Administration                         |
| CAA: Clean Air Act   | PBT: Persistent, Bioaccumulative and Toxic                                  |
| CAS: Chemical Abstract Service Number                            | PPE: Personal Protective Equipment  |
| CERCLA: Comprehensive Environmental Response and Liability Act   | REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals |
| CWA: Clean Water Act   | SARA: Superfund Amendment and Reauthorization Act                           |
| ECHA: European Chemicals Agency                                  | SDS: Safety Data Sheet  |
| EINECS: European Inventory of Existing Chemical Substances       | TSCA: Toxic Substances Control Act  |
| GHS: Global Harmonized System                                    | TWA: Time-weighted average  |
| IARC: International Agency for Research on Cancer                | UN: United Nations  |
| lbs.: Pounds   | vPvB: very Persistent, very Bioaccumulative                                 |
| MARPOL: Maritime Pollution                                       |   |

### **References:**

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- European Chemicals Agency Classification and Labelling Inventory Database.
- International Agency for Research on Cancer (IARC).

### **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:** February 05, 2021