

# Speedball Diazo Photo Emulsion

## SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: June 15, 2022

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 Photo Emulsion.  
Product sizes: 4 fl. oz. (118mL), 6.6 fl. oz. (195.1 mL), 26.4 fl. oz. (780.7 mL)  
Other Means of Identification: None known  
Product Description: Liquid formulation intended for general (adults) screen printing purposes. For use, the product is mixed with the product *Speedball Diazo Sensitizer*. Once combined, the mixture is thinly spread across a screen and is dried in a dark place. When dry, sections are covered and the screen is exposed to bright light, causing the exposed product to undergo a curing reaction and become impermeable. The uncured product is rinsed away with water leaving the porous screen available to create prints.

#### 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

| Health         | Environmental  | Physical       |
|----------------|----------------|----------------|
| Not classified | Not classified | Not classified |

#### 2.2. Label elements

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

#### 2.3. Other hazards

- No other hazards have been identified for this product

## Section 3 – Composition / Information on Ingredients

### Mixture

| Chemical Name | CAS No. | EC No.    | % Concentration | GHS Hazards  |
|---------------|---------|-----------|-----------------|--|
| Ethanol       | 64-17-5 | 200-578-6 | up to 4.6722%   | H319: Eye irritation   |
| Methanol      | 67-56-1 | 200-659-6 | up to 0.5230%   | H301: Acute oral tox 3,<br>H311: Acute dermal tox 3,<br>H331: Acute inhalation tox 3,<br>H370: STOT SE 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.

Assessment of vinyl acetate homopolymer (CAS No. not provided) was based on the assumption that the polymer is present in the final product formulation as a fully reacted/cured, high molecular weight, and highly stable polymer with negligible residual monomers present. 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. Seek medical attention if in doubt.

**Skin contact:** No specific first aid measures are required. If irritation occurs, wash with plenty of water and soap. Take off contaminated clothing. If skin irritation persists: Get medical advice/attention.

**Inhalation:** No specific first aid measures are required. Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

**Ingestion:** No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Not required.

## Section 5 – Fire Fighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, foam, dry chemical or carbon dioxide).

**Unsuitable Extinguishing Media:** None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:**

- Irritating vapours or fumes may form if product is involved in fire:
- Also see Section 10 - Stability and Reactivity.

### 5.3 Advice for firefighters

- Wear a self-contained breathing apparatus to protect against potentially irritating vapours or fumes.

## Section 6 – Accidental Release Measures

### 6.1 Personal precautions, protective equipment (PPE) and emergency procedures

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

**Emergency Procedures:** Not available.

### 6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures:** Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Ventilate contaminated area thoroughly. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 6.4 Reference to other sections

- Refer to **Section 8 - Exposure Controls/Personal Protection** and **Section 13 – Disposal Considerations**.

## Section 7– Handling and Storage

### 7.1 Precautions for safe handling

- Wash hands thoroughly after handling.
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Refer to **Section 8 - Exposure Controls/Personal Protection**.

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed to avoid spills.
- Keep in a cool dry place.

### 7.3 Specific end use(s)

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

## Section 8– Exposure Controls / Personal Protection

### 8.1 Control Parameters:

**Occupational exposure limits:** Only vapours were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

| Chemical Name          | CAS No.  | ACGIH<br>TLV TWA      | OSHA<br>PEL TWA        | NIOSH<br>REL TWA       | DFG<br>MAK TWA        |
|------------------------|----------|-----------------------|------------------------|------------------------|-----------------------|
| Methanol               | 67-56-1  | 262 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup>  | 260 mg/m <sup>3</sup>  | 130 mg/m <sup>3</sup> |
| Acrylic acid           | 79-10-7  | 5.9 mg/m <sup>3</sup> | N/A                    | 6 mg/m <sup>3</sup>    | 30 mg/m <sup>3</sup>  |
| Ethanol                | 64-17-5  | N/A                   | 1900 mg/m <sup>3</sup> | 1900 mg/m <sup>3</sup> | 380 mg/m <sup>3</sup> |
| Methyl isobutyl ketone | 108-10-1 | 82 mg/m <sup>3</sup>  | 410 mg/m <sup>3</sup>  | 205 mg/m <sup>3</sup>  | 83 mg/m <sup>3</sup>  |
| Isopropyl alcohol      | 67-63-0  | 492 mg/m <sup>3</sup> | 980 mg/m <sup>3</sup>  | 980 mg/m <sup>3</sup>  | 500 mg/m <sup>3</sup> |

### 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>                   | Liquid        | <b>Partition Coefficient n-octanol/water:</b> | Not available |
| <b>Physical state:</b>               | Blue          | <b>Auto-ignition temperature:</b>             | Not available |
| <b>Colour:</b>                       | Not available | <b>Decomposition temperature:</b>             | Not available |
| <b>Odour/Odour threshold:</b>        | Not available | <b>Dynamic viscosity:</b>                     | Not available |
| <b>pH (as supplied):</b>             | Not available | <b>Molecular weight:</b>                      | Not available |
| <b>Melting/freezing point:</b>       | Not available | <b>Taste:</b>                                 | Not available |
| <b>Boiling point/range:</b>          | Not available | <b>Explosive properties:</b>                  | Not available |
| <b>Flash point:</b>                  | Not available | <b>Oxidizing properties:</b>                  | Not available |
| <b>Evaporation rate:</b>             | Not available | <b>Surface tension:</b>                       | Not available |
| <b>Flammability:</b>                 | Not available | <b>Volatile component:</b>                    | Not available |
| <b>Upper/lower explosive limits:</b> | Not available | <b>Gas group:</b>                             | Not available |
| <b>Vapor pressure:</b>               | Not available | <b>pH (as solution):</b>                      | Not available |
| <b>Water solubility:</b>             | Not available | <b>VOC:</b>                                   | Not available |
| <b>Vapor density (Air = 1):</b>      | Not available | <b>Particle size range:</b>                   | Not available |
| <b>Specific gravity (Water = 1):</b> | Not available |   |               |
| <b>Relative density:</b>             | 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.

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

|  |   |
|--|---|
| <b>Acute oral toxicity:</b>                              | The product is practically non-toxic based on available animal and human use data. 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>                        | The product is practically nontoxic based on available animal and human use data.   |
| <b>Skin corrosion/irritation:</b>                        | The components >1% of this product are not corrosive to the skin or skin irritants based on human and/or animal studies.  |
| <b>Serious eye damage/irritation:</b>                    | Ethanol (CAS No. 64-17-5) is irritating to the eyes; however, classification is not warranted based on the concentration and a review of available data. The other components of this product >1% are not damaging to the eyes or eye irritants based on human and/or animal studies.   |
| <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 >0.1% 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 >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.  |
| <b>Reproductive Toxicity:</b>                            | Methanol (CAS No. 67-56-1) is classified for developmental toxicity by the State of California; however, product classification is not warranted based on the concentration present and a review of available data. The other components in the product >0.1% are not reproductive toxicants based on animal studies or no data identified for the components in this product.              |
| <b>Specific target organ toxicity (single exposure):</b> | Methanol (CAS No. 67-56-1) is classified for specific target organ toxicity (Category 1B); however, classification is not warranted based on the concentration and a review of available data. The other components in the product >1% are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product. |

**Specific target organ toxicity (repeated exposure):**

The components in this product >1% are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.

**Aspiration hazard:**

The components in the product >1% are not aspiration hazards based on animal studies or no data identified for the components in this product.

## 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.

## Section 13 – Disposal Considerations

### 13.1 Waste treatment methods

**Preparing wastes for disposal:** Use product for its intended purpose or recycle if possible. Dispose of waste in accordance with local, regional, national, and/or international regulations. The empty container has residues which may exhibit hazards of the product.

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

## Section 14 – Transport Information

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

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

## Section 15 – Regulatory Information

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

#### United States

#### *Federal Regulations:*

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

| Chemical Name | CAS No. | CERCLA RQ | CAA112(r) TQ   |
|---------------|---------|-----------|----------------|
| Methanol      | 67-56-1 | 5,000 lbs | Not applicable |

No other components in this product >0.1% 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:** Acrylic acid (CAS No. 79-10-7), isopropyl alcohol (CAS No. 67-63-0), methanol (CAS No. 67-56-1) and methyl iso-butyl ketone (CAS No. 108-10-1) are subject to reporting requirements of S.313. No other 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 Candidate Chemicals List:** Acrylic acid (CAS No. 79-10-7), isopropyl alcohol (CAS No. 67-63-0), methanol (CAS No. 67-56-1), methyl iso-butyl ketone (CAS No. 108-10-1), are listed on California's Candidate Chemicals List.

**California Proposition 65 List:** Methanol (CAS No. 67-56-1) and methyl iso-butyl ketone (MIBK) (CAS No. 108-10-1), are listed on the Proposition 65 List. A screening assessment indicates that the trace levels of these constituents are not expected to be a cause for concern or require warnings as per California Proposition 65. No other components in this product are listed on the 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 components in this product are listed on the Toxic or Hazardous Substance List.

**Minnesota Chemicals of High Concern List and Priority List:** Acrylic acid (CAS No. 79-10-7), ethanol (CAS No. 64-17-5), methanol (CAS No. 67-56-1), and methyl iso-butyl ketone (CAS No. 108-10-1) are listed on the Chemicals of High Concern and Priority list. No other components in this product are listed on the Chemicals of High Concern and Priority list.

**New Jersey Right to Know Hazardous Substance List:** Acrylic acid (CAS No. 79-10-7), ethanol (CAS No. 64-17-5), isopropyl alcohol (CAS No. 67-63-0), methanol (CAS No. 67-56-1), and methyl iso-butyl ketone (CAS No. 108-10-1) are listed on the Right to Know Hazardous Substance List. No other components present at >0.1% in the product are listed on the Right to Know Hazardous Substance List.

**Pennsylvania Hazardous Substance List:** Acrylic acid (CAS No. 79-10-7), ethanol (CAS No. 64-17-5), isopropyl alcohol (CAS No. 67-63-0), methanol (CAS No. 67-56-1), and methyl iso-butyl ketone (CAS No. 108-10-1) are listed on the Hazardous Substance List. No other components 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:** Ethanol (CAS No. 64-17-5) when present in alcoholic beverages is listed as Group 1, carcinogenic to humans. Methyl iso-butyl ketone (CAS No. 108-10-1) is listed as Group 2B, possibly carcinogenic to humans. Acrylic acid (CAS No. 79-10-7) and isopropyl alcohol (CAS No. 67-63-0) are listed as Group 3, not classifiable as to its carcinogenicity to humans. No other components in this product are classified with respect to carcinogenicity.

### 15.2 Chemical Safety Assessment

- None available for the components in this product.

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

## Section 16 – Other Information

### List of acronyms and abbreviations:

|  |   |
|--|---|
| ACGIH: American conference of Governmental Hygenists                         | NIOSH: National Institute for Occupational Safety & Health                  |
| ATE: Acute Toxicity Estimate   | OSHA: Occupational Safety and Health Administration                         |
| CAA: Clean Air Act   | PBT: Persistent, Bioaccumulative and Toxic                                  |
| CAS: Chemical Abstract Service Number  | PEL: Permissible Exposure Level   |
| CERCLA: Comprehensive Environmental Response and Liability Act               | 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  | SARA: Superfund Amendment and Reauthorization Act                           |
| ECHA: European Chemicals Agency  | SDS: Safety Data Sheet  |
| GHS: Global Harmonized System  | TLV: Threshold limit value  |
| HEPA: High Efficiency Particulate Air  | TSCA: Toxic Substances Control Act  |
| IARC: International Agency for Research on Cancer                            | TWA: Time-weighted average  |
| IBC: International Bulk Chemical   | UN: United Nations  |
| MARPOL: Maritime Pollution   | vPvB: very Persistent, very Bioaccumulative                                 |

### References:

- ECHA (European Chemicals Agency). 2022. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>
- IARC (International Agency for Research on Cancer). 2022. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>
- NTP (National Toxicology Program). 2022. 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:** June 15, 2022

# 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: Speedball Art Products, LLC  
2301 Speedball Rd  
Statesville, NC 28677  
Business Phone: 800-898-7224  
Email: customerservice@speedballart.com

#### 1.4 Emergency telephone number

Transportation: 1-800-898-7224  
Health: 1-800-222-1222

### 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:

|                              |  |
|------------------------------|--|
| Eye Irritation (Category 2)  | <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) |
| Skin Irritation (Category 2) | <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       |                       |                           |
| Evaporation rate:             | No data available | Explosive properties: | No data available         |
| Flammability:                 | No data available | Oxidizing properties: | No data available         |
| Upper/lower explosive limits: | No data available | Surface tension:      | No data available         |
| Vapor pressure:               | Not established   | Volatile component:   | No data available         |
| Water solubility:             | Infinite          | Gas group:            | No data available         |
| Vapor density (Air = 1):      | No data available | pH (as solution):     | No data available         |
| Specific gravity (Water = 1): | 1.3               | VOC:                  | 0.0 g/L (excluding water) |
| Relative density:             | No data available | Particle size range:  | 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.

**Acute oral toxicity:**

Practically non-toxic based on the polymer composition of the product.

**Acute dermal toxicity:**

Practically nontoxic based on the polymer composition of the product.

**Acute inhalation toxicity:**

Insufficient and/or no data identified for the components in this product.

**Skin corrosion/irritation:**

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.

**Serious eye damage/irritation:**

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.

**Respiratory or skin sensitization:** The components in this product are not sensitizing to the skin based on human and/or animal studies.

**Mutagenicity:** The components in the product are not mutagenic based on animal studies or no data identified for the components in this product.

**Carcinogenicity:** The components in the product are not carcinogenic based on animal studies or no data identified for the components in this product.

**Reproductive Toxicity:** The components in the product are not reproductive toxicants based on animal studies or no data identified for the components in this product.

**Specific target organ toxicity (single exposure):** The components in the product are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product.

**Specific target organ toxicity (repeated exposure):** The components in the product are not specific target organ toxicity (repeated exposure) toxicants based on animal studies or no data identified for the components in this product.

**Aspiration hazard:** 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.

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

## Section 15 – Regulatory Information

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

#### United States

##### *Federal Regulations:*

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

| Chemical Name   | CAS No.   | Reportable Quantity (lbs.) |
|-----------------|-----------|----------------------------|
| 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

# Diazo Photoemulsion Remover

## SAFETY DATA SHEET (SDS)

Version: 02

Date of Issue: March 30, 2020

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: Diazo Photoemulsion Remover  
Other Means of Identification: None known  
Product Description: A liquid to be used for cleaning screens used in screen printing.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

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

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

Manufacturer/Supplier: Speedball Art Products Co.  
PO Box 5157  
2301 Speedball Road  
Statesville, NC 28677

Business Phone: 704-978-4166 Fax: 704-838-1472  
Email: budmartin@speedballart.com

#### 1.4 Emergency telephone number

Emergency Telephone: Transportation: 1-800-898-7224  
Health: 1-800-222-1222

### 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

| Health                                | Environment    | Physical       |
|---------------------------------------|----------------|----------------|
| Eye Irritation<br>(Category 2A), H319 | Not classified | Not classified |

#### 2.2. Label elements

Label Pictogram:



Signal Word: Warning

Hazard Statement: H319: Causes serious eye irritation.

Precautionary Statement:

- Wash hands thoroughly after handling (P264)
- Wear protective gloves/protective clothing/eye protection/face protection (P280)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. (P305+P351+P338)
- IF eye irritation persists: Get medical advice/attention (P337+P313)
- If medical advice is needed, have product container or label at hand

### 2.3. Other hazards

- If exposed for greater than 4 hours, skin irritation may occur.

## Section 3 – Composition / Information on Ingredients

### Mixture

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>EINECS No.</u> | <u>% Weight</u> |
|----------------------|----------------|-------------------|-----------------|
| Sodium m-periodate   | 7790-28-5      | 232-197-6         | 1.8552%         |

## 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 eyes and skin
- 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:** Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. 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. Remove sources of ignition. Keep combustibles away from spilled material. Collect recoverable product and place in a designated container for disposal. Flush the area with water. Avoid dust formation. Dispose of sealed 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.
- Keep product below 284°F / 140°C
- 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:

- There are no exposure values available for the chemicals in this product.

## 8.2 Exposure Controls:

### Appropriate engineering controls

- Use ventilation or other engineering controls to maintain low airborne concentrations.
- 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. 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> | Liquid<br>Not available<br>Not available | <b>Partition Coefficient<br/>n-octanol/water:</b><br><b>Auto-ignition<br/>temperature:</b> | Not available<br>Not available |
| <b>pH (as supplied):</b>  | Not available                            | <b>Decomposition<br/>temperature:</b>  | Not available                  |
| <b>Melting/freezing point:</b>  | Not available                            | <b>Dynamic viscosity:</b>  | Not available                  |
| <b>Boiling point/range:</b>   | Not available                            | <b>Molecular weight:</b>   | Not available                  |
| <b>Flash point:</b>   | Not available                            | <b>Taste:</b>  | Not available                  |
| <b>Evaporation rate:</b>  | Not available                            | <b>Explosive properties:</b>   | Not available                  |
| <b>Flammability:</b>  | Not available                            | <b>Oxidizing properties:</b>   | Not available                  |
| <b>Upper/lower explosive<br/>limits:</b>  | Not available                            | <b>Surface tension:</b>  | Not available                  |
| <b>Vapor pressure:</b>  | Not available                            | <b>Volatile component:</b>   | Not available                  |
| <b>Water solubility:</b>  | Not available                            | <b>Gas group:</b>  | Not available                  |
| <b>Vapor density (Air = 1):</b>   | Not available                            | <b>pH (as solution):</b>   | Not available                  |
| <b>Specific gravity (Water = 1):</b>  | Not available                            | <b>VOC:</b>  | Not available                  |
| <b>Relative density:</b>  | Not available                            | <b>Particle size range:</b>  | Not available                  |

### 9.2 Other information

No further data available.

## Section 10 – Stability and Reactivity

### 10.1 Reactivity

- This material is considered to not 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 oxidisers
- Direct sunlight

### 10.5 Incompatible materials

- Strong acids
- Strong oxidisers

### 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 available animal and human use data. ATE >5000 mg/kg   |
| <b>Acute dermal toxicity:</b>             | Practically nontoxic based on available animal and human use data..   |
| <b>Acute inhalation toxicity:</b>         | Practically nontoxic based on available animal and human use data.  |
| <b>Skin corrosion/irritation:</b>         | Sodium m-periodate (CAS No. 7790-28-5) may cause skin irritation based on animal studies and human data. Symptoms include redness, heat, swelling, and pain. The other components of this product are not skin irritants.                               |
| <b>Serious eye damage/irritation:</b>     | Sodium m-periodate (CAS No. 7790-28-5) 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 components of this product are not skin irritants. |
| <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.  |

**Reproductive Toxicity:** The components in the product are not reproductive toxicants based on animal studies or no data identified for the components in this product.

**Specific target organ toxicity (single exposure):** The components in the product are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product.

**Specific target organ toxicity (repeated exposure):** The components in the product are not specific target organ toxicity (repeated exposure) toxicants based on animal studies or no data identified for the components in this product.

**Aspiration hazard:** 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)  |
|--------------------|-----------|-------------------------------------|----------------------|
| Sodium m-periodate | 7790-28-5 | Rainbow trout (oncorhynchus mykiss) | 96-hour LC50 = >0.17 |
|                    |           | Daphnia magna                       | 48-hour LC50 = 0.18  |
|                    |           | Pseudokirchneriella subcapitata     | 72-hour ErC50 = 1.1  |

### 12.2 Persistence and degradability

- No data available for the components of the product.

### 12.3 Bioaccumulative potential

- No potential for bioaccumulation of Sodium m-periodate (CAS No. 7790-28-5)
- 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. Review classification requirements before shipping materials to high temperatures.

|   | ADR/RID/ADNR/DOT | IMO/IMDG       | ICAO/IATA      |
|---|------------------|----------------|----------------|
| 14.1 UN number  | Not regulated    | Not regulated  | Not regulated  |
| 14.2 UN proper shipping name  | Not regulated    | Not regulated  | Not regulated  |
| 14.3 Transport hazard class(es):  | Not regulated    | Not regulated  | Not regulated  |
| 14.4 Packing group  | Not regulated    | Not regulated  | Not regulated  |
| 14.5 Environmental hazards  | None             | None           | None           |
| 14.6 Special precautions for user   | None             | None           | None           |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable   | Not applicable | 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):**

| Chemical Name | CAS No.   | Reportable quantity (lbs) | Calculated (lbs) |
|---------------|-----------|---------------------------|------------------|
| Nitric Acid   | 7697-37-2 | 1000                      | 12,406           |

No other components in this product are listed 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:**

| Chemical Name | CAS No.   | Reportable quantity (lbs) | Calculated (lbs) |
|---------------|-----------|---------------------------|------------------|
| Nitric Acid   | 7697-37-2 | 1000                      | 12,406           |

No other components in this product are subject to reporting requirements of S.302.

**SARA 311/312 Hazards:** No components in this product are SARA Hazards.

**SARA 313 Components:** Nitric acid (CAS No. 7697-37-20 is subject to S. 313. No components in this product are subject to S.313.

##### **Toxic Substances Control Act (TSCA):**

All components in this product are listed on the non-confidential TSCA inventory.

##### **State Regulations:**

**California:** No components in this product are listed.

##### International:

**IARC:** No components in this product are classified with respect to carcinogenicity.

### 15.2 Chemical Safety Assessment

- None available

## Section 16 – Other Information

### List of acronyms and abbreviations:

|   |   |
|---|---|
| ACGIH: American Conference of Governmental Industrial Hygienists          | IMO: International Maritime Organization                                    |
| ADR: International Carriage of Dangerous Goods by Road                    | MARPOL: Maritime Pollution  |
| ADNR: Regulation for the carriage of dangerous substances on the Rhine    | mg/L: Milligrams per Litre  |
| CAS: Chemical Abstract Service Number                                     | NIH: National Institutes of Health  |
| CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008 | NTP: National Toxicology Program  |
| EC: European Commission   | OSHA: Occupational Safety and Health Administration                         |
| ECHA: European Chemicals Agency   | PBT: Persistent, Bioaccumulative and Toxic                                  |
| EINECS: European Inventory of Existing Chemical Substances                | PPE: Personal Protective Equipment  |
| EPCRA: Emergency Planning and Community Right To Know Act                 |   |
| GHS: Global Harmonized System   | REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals |
| HEPA: High Efficiency Particulate Air                                     | RID: International rule for transport of dangerous                          |
| IBC: International Bulk Chemical  | SDS: Safety Data Sheet  |
| IARC: International Agency for Research on Cancer                         | STEL: Short-term Exposure Limit   |
| IATA: International Air Transport Association                             | TWA: Time Weighted Average (8-hour)   |
| ICAO: International Civil Aviation Organization                           | UN: United Nations  |
| IDLH: Immediately Dangerous to Life or Health                             | vPvB: very Persistent, very Bioaccumulative                                 |
| IMDG: International Maritime Dangerous Goods                              |   |

### References:

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- European Chemicals Agency Classification and Labelling Inventory Database.

### 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 2<sup>nd</sup> revision Safety Data Sheet.

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