44962-1009

Speedball Acrylic Screen Printing Ink

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: **August 30, 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 Acrylic Screen Printing Ink (White, Primrose Yellow, Medium Yellow, Orange, Fire Red, Medium Red, Dark Red, Gold, Silver, Violet, Ultramarine Blue, Dark Blue, Peacock Blue, Emerald Green, Brown, Black, Process Cyanine, Process Magenta, Process Yellow, Fluorescent Lime Green, Fluorescent Hot Pink, Fluorescent Orange, Fluorescent Magenta, Fluorescent Yellow, Fluorescent Blue, Night Glo Green, Night Glo Original, Night Glo Blue, Poster Black).
Product sizes:	4 fl. oz. (118mL), 8 fl. oz. (236.5 mL), 32 fl. oz. (946.3 mL), 128 fl. oz. (3.78 L)
Other Means of Identification:	None known
Product Description:	A water-based ink used for general (adults) screen printing purposes. For use, the product is applied with a screen and squeegee on paper, cardboard, wood and primed surfaces.

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[a]	GHS Hazards
Titanium dioxide	13463-67-7	236-675-5	up to 22.5251%	H351: Carc 2 (Resp)
Quartz	14808-60-7	238-878-4	up to 0.209%	H350: Carc 1 (Resp); H372: STOT RE 1 (Resp Irr)
Talc[b]	14807-96-6	238-877-9	up to 1.900%	H350: Carc 1A (Resp)
Styrene acrylic resin solution	N/A (proprietary mixture)	N/A (mixture proprietary)	up to 7.4239%	H319: Eye irritation

[a] Concentrations are calculated as a maximum across all products, rather than by color.

[b] Assessment of the product, was based on the assumption that the talc used in the product contains <0.1% asbestos fibers. If this is not the case, reassessment of the product is required.

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.

It should be noted that the product may contain titanium dioxide (CAS No. 13463-67-7), and quartz (CAS No.14808-60-7), which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.,* liquid) airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product.

This SDS was prepared under the assumption that the ingredient, acrylic co-polymer (CAS No. 26300-51-6) and styrene acrylic resin solution (CAS No. not provided) is present in the final product as fully reacted/cured, high-molecular weight, and highly stable polymers with negligible residual monomers present (<0.1%). If this is not the case, reassessment of the product is required.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. 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 TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAK TWA
Titanium dioxide	13463-67-7	10	15 (dust)	10	N/A
Quartz	14808-60-7	0.025R	0.05**	0.05**	N/A
Talc	14807-96-6	2 mg/m^3	2 mg/m^3	2 mg/m^3 and <1% quartz	-

N/A	Not available	I	Measured as inhalable fraction of the aerosol
*	Total dust	R	Measured as respirable fraction of the aerosol
**	Respirable fraction		
***	Can also occur as vapor and aerosol		
****	Multiplied with the material density		

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory: Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Eyes/Face: If contact is likely, safety glasses with side shields are recommended.

Hands: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.

Body/Skin: Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

Thermal Hazards: None known.

Environmental Exposure Controls: Not available.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: **Physical state:** **Colour:** **Odour/Odour threshold:**	 Liquid see **Section 1.1** Not available	**Partition Coefficient n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	7-8	**Decomposition temperature:**	Not available
Melting/freezing point:	Not available	**Dynamic viscosity:**	Not available
Boiling point/range:	Not available	**Molecular weight:**	Not available
Flash point:	Not available	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not available	**Oxidizing properties:**	Not available
Upper/lower explosive limits:	Not available	**Surface tension:**	Not available
Vapor pressure:	Not available	**Volatile component:**	Not available
Water solubility:	Not available	**Gas group:**	Not available
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not available
Specific gravity (Water = 1):	Not available	**VOC:**	Not available
Relative density:	Not available	**Particle size range:**	Not available

9.2 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.

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 nontoxic based on available animal and human use data.
Skin corrosion/irritation:	The components >1% of this product are not corrosive to the skin or skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	The proprietary mixture styrene acrylic resin solution 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.
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 >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.
Carcinogenicity:	Titanium dioxide (CAS No. 13463-67-7) (airborne, unbound particles of respirable size) has been classified for carcinogenicity (Category 2). Quartz (listed as crystalline silica, airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1). Classification is not warranted based on a review of available data. The other components in the product >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.
Reproductive Toxicity:	The components in the product >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):	The 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):	Quartz (crystalline silica) (CAS No. 14808-60-7) is classified for specific target organ toxicity (Category 1, may cause respiratory irritation); however, classification is not warranted based on the concentration and a review of available data. The other 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.

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

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
Ammonia (listed as ammonium hydroxide)	1336-21-6	1,000 lbs	Not applicable
Ethyl acrylate	140-88-5	1000 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: Ammonia (listed as ammonium hydroxide) (CAS No. 1336-21-6), ethyl acrylate (CAS No. 140-88-5), Basic Violet 10 Pigment (listed as C.I. Food Red 15 (CAS No. 81-88-9). No other components 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): Methanol, (1H,3H,5H-oxazolo[3,4-c]oxazol-7a(7H)-ylmethoxy)- (CAS No. 59720-42-2), 5-hydroxypoly (methyleneoxy (74% C2, 21% C3, 4% C4, 1% C5) methyl-1-aza-3, 7-dioxabicyclo- (3.3.0) octane (CAS No. 56709-13-8), acrylic co-polymer (CAS No. 26300-51-6) and benzoguanamine-formaldehyde resin (CAS No. 2610-89-4) are not listed on the TSCA inventory. All components are listed on the non-confidential TSCA inventory or are exempt.

State Regulations:

California Candidate Chemicals List: No components are listed on California's Candidate Chemicals List.

California Proposition 65 List: Titanium dioxide (CAS No. 13463-67-7), carbon black (CAS No. 1333-86-4), airborne particles of respirable size, and quartz (CAS No. 14808-60-7) [listed as silica, crystalline (airborne particles of respirable size)] are listed on the Proposition 65 List; however, given the nature/physical form of the product (i.e., liquid) airborne respirable particles would not likely be released from this product and therefore the listed form of silica, crystalline and titanium dioxide are not relevant for the product. Talc (CAS No. 14807-96-6) is listed on the Proposition 65 List; however, given the assumption that the talc used in the product contains <0.1% asbestos fibers and the concentration of talc present in the product, labelling requirements of Proposition 65 do not apply. Formaldehyde (CAS No. 50-00-0), antimony (CAS No. 1309-64-4), arsenic (CAS No.7440-38-2), beryllium (CAS No.7440-41-7), cadmium (CAS No.7440-43-9), chromium (CAS No.7440-47-3), methanol (CAS No. 67-56-1), diethanolamine (CAS No. 111-42-2), ethylene glycol (CAS No. 107 21-1), styrene (CAS No. 100-42-5), 3,3'-dichlorobenzidine (CAS No. 91-94-1), 2 methoxyaniline [listed as o-anisidine (CAS No. 90-04-0), 1,4-dioxane (CAS No. 123-91-1), ethylene oxide (CAS No. 75-21-8), ethyl acrylate (CAS No. 140-88-5), lead (CAS No. 7439-92-1), nickel (CAS No. 7440-02-0), acetaldehyde (CAS No. 75-07-0), hexachlorobenzene (CAS No. 118-74-1), and Basic Violet 10 Pigment (listed as D&C Red No. 19 (CAS No. 81-88-9) 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: Ethyl acrylate (CAS No. 140-88-5) is 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: Mica (CAS No. 12001-26-2), monoethanolamine (CAS No. 141-43-5) (listed as ethanolamine), talc (CAS No. 14807-96-6), ethyl acrylate (CAS No. 140-88-5), iron oxide (Fe2O3) (listed as iron oxide) (CAS No. 1309-37-1) 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: Mica (CAS No. 12001-26-2), monoethanolamine (CAS No. 141-43-5) (listed as ethanol, 2-amino-), talc (CAS No. 14807-96-6), ethyl acrylate (listed as 2-propenoic acid, ethyl ester) (CAS No. 140-88-5), iron oxide (Fe2O3) (CAS No. 1309-37-1) 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: Titanium dioxide (CAS No. 13463-67-7), carbon black (CAS No. 1333-86-4), talc (not containing asbestos fibres) (CAS No. 14807-96-6), diethanolamine (CAS No. 111-42-2), 3,3'-dichlorobenzidine (CAS No. 91-94-1), 1,4-dioxane (CAS No. 123-91-1, ethyl acrylate (CAS No. 140-88-5), acetaldehyde (CAS No. 75-07-0), lead (CAS No. 7439-92-1), nickel (CAS No. 7440-02-0), and hexachlorobenzene (CAS No. 118-74-1) are considered Group 2B (possibly carcinogenic to humans) according to IARC. Styrene (CAS No. 100-42-5), and 2 methoxyaniline (CAS No. 90-04-0) are listed as Group 2A, carcinogenic to humans. Formaldehyde (CAS No.50-00-0), arsenic (CAS No.7440-38-2), beryllium (CAS No.7440-41-7), cadmium (CAS No.7440-43-9), chromium (CAS No.7440-47-3), cobalt (CAS No. 7440-48-4), quartz (particles of respirable size) (CAS No.14808-60-7), and ethylene oxide (CAS No.75-21-8) are listed as Group 1, carcinogenic to humans. Red iron oxide (CAS No.1309-37-1), 2-butoxyethanol (CAS No. 111-76-2), talc not containing asbestos or asbestiform fibers (CAS No. 14807-96-6), Basic Red 1 (CAS No. 989-38-8), mercury (CAS No. 7439-97-6) and C.I. Basic Violet 10 (CAS No.81-88-9) are classified 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 Forschungsgemeinschaf 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: August 30, 2022

Speedball Screen Drawing Fluid

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: **May 16, 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 Screen Drawing Fluid
Product sizes: 4 fl. oz. (118 mL), 8 fl. oz. (237 mL), 32 fl. oz. (946.3 mL)
Other Means of Identification: None known
Product Description: Water-soluble fluid used for screen printing that is applied using a brush.

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

Health	Environmental	Physical
Not classified	Not classified	Not classified

2.2. Label elements

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

The 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.

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. See **Section 1 - Identification of the Substance/Mixture and of the Company/Undertaking** for additional information.

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory:	Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
Eyes/Face:	If contact is likely, safety glasses with side shields are recommended.
Hands:	Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
Body/Skin:	Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
Thermal Hazards:	None known.

Environmental Exposure Controls: Not available.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

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

9.2 Other information

- No further data available.

Section 10 – Stability and Reactivity

10.1 Reactivity

- This material is not considered to be reactive under normal handling and storage conditions.

10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- Not expected to occur under normal handling and storage conditions.

10.4 Conditions to avoid

- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

10.5 Incompatible materials

- Strong acids
- Strong bases
- Strong oxidisers
- Strong reducing agents.

10.6 Hazardous decomposition products

- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

Section 11 – Toxicological Information

Likely routes of exposure: Skin contact.
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 >2000 mg/kg
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. ATE >2000 mg/kg
Acute inhalation toxicity:	The product is practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	The components >1% of this product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	The components of this product >1% are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	The components in this product >0.1% are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The components in the product >0.1% are not classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
Carcinogenicity:	The components in the product >0.1% are not classified with respect to carcinogenicity by the IARC, NTP, and ACGIH.
Reproductive Toxicity:	The components in the product >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):	The 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 the product >1% 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 >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 other 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):
Propylene oxide (CAS No. 75-56-9) and formaldehyde (CAS No. 50-00-0) have reporting quantities of 100 lbs in accordance with CERCLA. Ethylene oxide (CAS No. 75-21-8) has a reporting quantity of 10 lbs in accordance with CERCLA. No other components in this product are subject to reporting requirements of CERCLA.
Clean Water Act (CWA): No components in this product are listed as toxic pollutants.
Clean Air Act (CAA): Propylene oxide (CAS No. 75-56-9) and ethylene oxide (CAS No. 75-21-8) are listed by the CAA, each with a threshold quantity of 10,000 lbs. Formaldehyde (CAS No. 50-00-0) is listed by the CAA with a threshold quantity of 15,000 lbs.
Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA 302 Components: Formaldehyde (CAS No. 50-00-0) has a reporting quantity of 500 lbs in accordance with S.302. Ethylene oxide (CAS No. 75-21-8) has a reporting quantity of 1,000 lbs in accordance with S.302. Propylene oxide (CAS No. 75-56-9) has a reporting quantity of 10,000 lbs in accordance with S.302. No other components in this product are subject to reporting requirements of S.302.
SARA 304 Emergency Release Notification: Propylene oxide (CAS No. 75-56-9) and formaldehyde (CAS No. 50-00-0) each have a reporting quantity of 100 lbs in accordance with S.304. Ethylene oxide (CAS No. 75-21-8) has a reporting quantity of 10 lbs in accordance with S.304. No other components in this product are subject to reporting requirements of S.304.
SARA 311/312 Hazards: None.
SARA 313 Components: Propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (CAS No. 50-00-0) 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): Methanol, (1H,3H,5H-oxazolo[3,4-c]oxazol-7a(7H)-ylmethoxy)- (CAS No. 59720-42-2) and 5-hydroxypoly (methyleneoxy (74% C2, 21% C3, 4% C4, 1% C5) methyl-1-aza-3, 7-dioxabicyclo- (3.3.0) octane (CAS No. 56709-13-8) are not listed on the non-confidential TSCA inventory. All other components are listed on the non-confidential TSCA inventory or are exempt.

State Regulations:

California Candidate Chemicals List: Propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (gas) (CAS No. 50-00-0) are listed on California's Candidate Chemicals List.
California Proposition 65 List: Propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (gas) (CAS No. 50-00-0) 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: Formaldehyde (CAS No. 50-00-0) is listed on the Toxic or Hazardous Substance List. No other components in this product are listed on the Toxic or Hazardous Substance List.
Minnesota Chemicals of High Concern List and Priority List: Propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (gas) (CAS No. 50-00-0) 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: 1,2 Propylene glycol (CAS No. 57-55-6), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (gas) (CAS No. 50-00-0) are listed on the Right to Know Hazardous Substance List. No other components in this product are listed on the Right to Know Hazardous Substance List.
Pennsylvania Hazardous Substance List: 1,2 Propylene glycol (CAS No. 57-55-6), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), and formaldehyde (gas) (CAS No. 50-00-0), 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: Ethylene oxide (CAS No. 75-21-8) and formaldehyde (CAS No. 50-00-0) are listed as Group 1, carcinogenic to humans. Propylene oxide (CAS No. 75-56-9) is listed as Group 2B, possibly carcinogenic 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	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	RQ: Reportable quantity
CWA: Clean Water Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaf 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
NIOSH: National Institute for Occupational Safety & Health	

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: May 16, 2022

Speedball Screen Filler

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: May 20, 2022

According to: OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2012, WHMIS 2015 (Hazardous Products Regulations)

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

1.1 Product identifier

Product Name:	Speedball Screen Filler
Product sizes:	4 fl. oz. (118 mL), 8 fl. oz. (237 mL), 32 fl. oz. (946.3 mL)
Other Means of Identification:	None known
Product Description:	Water-soluble fluid used for screen printing that is applied using a squeegee.

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

Health	Environmental	Physical
Not classified	Not classified	Not classified

2.2. Label elements

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
Talc[a]	14807-96-6	238-877-9	up to 4.24%
Crystalline silica [b]	14808-60-7	238-878-4	up to 0.04%

[a] It was assumed that the talc used in the product contains <0.1% asbestos fibers.

[b] Crystalline silica (particles of respirable size) (CAS No.14808-60-7) may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.,* liquid ink) airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product.

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.

This SDS was prepared under the assumption that the polymers contained in the mixtures HYDRIPRINT™ 604 and HYDRIPRINT™ 243 LV, and the ingredient styrene acrylic resin solution contained within the mixture, Hydricryl 132 are 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: 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 TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAK
Talc	14807-96-6	2 mg/m^3	2 mg/m^3	2 mg/m^3 and <1% quartz	-
Quartz	14808-60-7	0.025 mg/m^3	0.05 mg/m^3	0.05 mg/m^3	-

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory: Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Eyes/Face: If contact is likely, safety glasses with side shields are recommended.

Hands: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.

Body/Skin: Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

Thermal Hazards: None known.

Environmental Exposure Controls: Not available.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: **Physical state:** **Colour:** **Odour/Odour threshold:**	 Liquid Red oxide Not available	**Partition Coefficient** **n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	7 - 8	**Decomposition temperature:**	Not available
Melting/freezing point:	Not available	**Dynamic viscosity:**	Not available
Boiling point/range:	Not available	**Molecular weight:**	Not available
Flash point:	Not available	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not available	**Oxidizing properties:**	Not available
Upper/lower explosive limits:	Not available	**Surface tension:**	Not available
Vapor pressure:	Not available	**Volatile component:**	Not available
Water solubility:	Not available	**Gas group:**	Not available
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not available
Specific gravity (Water = 1):	Not available	**VOC:**	Not available
Relative density:	Not available	**Particle size range:**	Not available

9.2 Other information

- No further data available.

Section 10 – Stability and Reactivity

10.1 Reactivity
- This material is not considered to be reactive under normal handling and storage conditions.

10.2 Chemical stability
- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions
- Not expected to occur under normal handling and storage conditions.

10.4 Conditions to avoid
- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

10.5 Incompatible materials
- Strong acids
- Strong bases
- Strong oxidisers
- Strong reducing agents

10.6 Hazardous decomposition products
- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

Section 11 – Toxicological Information

Likely routes of exposure: Skin contact. Inhalation of vapors.
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 >2000 mg/kg
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. ATE >2000 mg/kg
Acute inhalation toxicity:	The product is practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	The components >1% of this product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	The components of this product >1% are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	The components in this product >0.1% are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The components in the product >0.1% are not classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
Carcinogenicity:	Crystalline silica (CAS No 14808-60-7) has been classified for carcinogenicity (Category 1A). The other components in the product >0.1% are not classified with respect to carcinogenicity by the IARC, NTP, and ACGIH.

Reproductive Toxicity:	The components in the product >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):	The 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 the product >1% 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 >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 other 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.	CERLA RQ
Propylene oxide	75-56-9	100 lbs
Ethylene oxide	75-21-8	10 lbs
Formaldehyde (gas)	50-00-0	100 lbs
Methanol	67-56-1	5,000 lbs
Ethylbenzene	100-41-4	1,000 lbs

Clean Water Act (CWA): No components in this product are listed as toxic pollutants.
Clean Air Act (CAA): Propylene oxide (CAS No. 75-56-9) and ethylene oxide (CAS No. 75-21-8) are listed by the CAA, each with a threshold quantity of 10,000 lbs. Formaldehyde (CAS No. 50-00-0) is listed by the CAA with a threshold quantity of 15,000 lbs.
Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA 302 Components: Formaldehyde (CAS No. 50-00-0) has a reporting quantity of 500 lbs in accordance with S.302. Ethylene oxide (CAS No. 75-21-8) has a reporting quantity of 1,000 lbs in accordance with S.302. Propylene oxide (CAS No. 75-56-9) has a reporting quantity of 10,000 lbs in accordance with S.302. No other components in this product are subject to reporting requirements of S.302.
SARA 304 Emergency Release Notification: Propylene oxide (CAS No. 75-56-9) and formaldehyde (CAS No. 50-00-0) each have a reporting quantity of 100 lbs in accordance with S.304. Ethylene oxide (CAS No. 75-21-8) has a reporting quantity of 10 lbs in accordance with S.304. No other components in this product are subject to reporting requirements of S.304.
SARA 311/312 Hazards: None.
SARA 313 Components: Formaldehyde (CAS No. 50-00-0, propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), and ethylbenzene (CAS No. 100-41-4), 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): Methanol, (1H,3H,5H-oxazolo[3,4-c]oxazol-7a(7H)-ylmethoxy)- (CAS No. 59720-42-2) and 5-hydroxypoly (methyleneoxy (74% C2, 21% C3, 4% C4, 1% C5) methyl-1-aza-3, 7-dioxabicyclo- (3.3.0) octane (CAS No. 56709-13-8) are not listed on the non-confidential TSCA inventory. All other components are listed on the non-confidential TSCA inventory or are exempt.

State Regulations:

California Candidate Chemicals List: Formaldehyde (CAS No. 50-00-0), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), ethylbenzene (CAS No. 100-41-4), formaldehyde (gas) (CAS No. 50-00-0) and crystalline silica (particles of respirable size) (CAS No. 14808-60-7) are listed on California's Candidate Chemicals List.
California Proposition 65 List: Formaldehyde (CAS No. 50-00-0), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), ethylbenzene (CAS No. 100-41-4), and formaldehyde (gas) (CAS No. 50-00-0) 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. Crystalline silica (particles of respirable size) (CAS No. 14808-60-7) is listed on the Proposition 65 List; however, given the nature and physical form of the product (*i.e.*, liquid ink), airborne respirable particles would not likely be released from the product and therefore the listed form of crystalline silica is not relevant for the product. 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: Formaldehyde (CAS No. 50-00-0) is listed on the Toxic or Hazardous Substance List. No other components in this product are listed on the Toxic or Hazardous Substance List.
Minnesota Chemicals of High Concern List and Priority List: Formaldehyde (gas) (CAS No. 50-00-0), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), and ethylbenzene (CAS No. 100-41-4) 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: Formaldehyde (gas) (CAS No. 50-00-0), 1,2 propylene glycol (CAS No. 57-55-6), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), talc (CAS No. 14807-96-6), ethylbenzene (CAS No. 100-41-4), and diiron trioxide (CAS No. 1309-37-1) are listed on the Right to Know Hazardous Substance List. No other components in this product are listed on the Right to Know Hazardous Substance List.
Pennsylvania Hazardous Substance List: Formaldehyde (gas) (CAS No. 50-00-0),1,2 propylene glycol (CAS No. 57-55-6), propylene oxide (CAS No. 75-56-9), ethylene oxide (CAS No. 75-21-8), methanol (CAS No. 67-56-1), talc (CAS No. 14807-96-6), ethylbenzene (CAS No. 100-41-4), and diiron trioxide (CAS No. 1309-37-1) 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.

Canada
CEPA DSL/NDSL: The components of this product are included on the DSL or are exempt from DSL/NDSL requirements.

International:
IARC: Formaldehyde (CAS No. 50-00-0), ethylene oxide (CAS No. 75-21-8), ethylbenzene (CAS No. 100-41-4), crystalline silica (particles of respirable size) (CAS No.14808-60-7), and talc (CAS No. 14807-96-6) are listed as Group 1, carcinogenic to humans. Propylene oxide (CAS No. 75-56-9) and methanol (CAS No. 67-56-1) are listed as Group 2B, possibly carcinogenic 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	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	RQ: Reportable quantity
CWA: Clean Water Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaf 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
NIOSH: National Institute for Occupational Safety & Health	

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: May 20, 2022

Speedball Speed Clean

SAFETY DATA SHEET (SDS)

Version: 02
Date of Issue: **April 9, 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: Speedball Speed Clean (4 fl. oz, 16 fl. oz., 32 fl. oz, 128 fl. oz)
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 (Category 2A), H319 Skin Irritation (Category 2), H315	Not classified	Not classified

2.2. Label elements

Label Pictogram:

Signal Word: Warning
Hazard Statement: H319: Causes serious eye irritation. H315: Causes skin irritation.
Precautionary Statement:

- If medical advice is needed, have product container or label at hand (P101)
- Read label before use (P103)
- 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 ON SKIN: wash with plenty of water (P302+P352)
- Specific treatment (see section 4: First Aid Measures) (P321)
- IF eye irritation persists: Get medical advice/attention (P337+P313)
- IF SKIN irritation occurs: Get medical advice/attention (P332+P313)
- Take off contaminated clothing (P362)

2.3. Other hazards
- None known

Section 3 – Composition / Information on Ingredients

Mixture

Chemical Name	CAS No.	EINECS No.	% Weight
Sodium metasilicate	6834-92-0	229-912-9	2.13%
Diethylene glycol	111-46-6	111-46-6	3.92%
Ethoxylated fatty alcohol	78330-21-9	616-609-5	3.15%
Nonylphenol, ethoxylated	127087-87-0	500-315-8	5.14%

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:

- 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. 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.
- 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.
- 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 (mg/m^3)
Diethylene glycol	111-46-6	3.92%	AIHA WEEL	10 (TWA)

- There are no other 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.

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

9.2 Other information

Reactivity in water: Non-reactive.

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
- Strong acids
- Strong oxidisers

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.

Acute oral toxicity:	Diethylene glycol (CAS No. 111-46-6) may cause acute toxicity. However, the product is practically non-toxic based on available animal and human use data. ATE >5000 mg/kg
Acute dermal toxicity:	Practically nontoxic based on available animal and human use data.
Acute inhalation toxicity:	Practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	Sodium metasilicate (CAS No. 6834-92-0) 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.
Serious eye damage/irritation:	Sodium metasilicate (CAS No. 6834-92-0), ethoxylated fatty alcohol (CAS No. 78330-21-9), nonylphenol, ethoxylated (CAS No. 127087-87-0), 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.
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)
Sodium metasilicate	6834-92-0	Brachydanio rerio	96- hour LC50 = 210
		Gambusia affinis	96- hour LC50 = 2320
		Pseudomonas putida	3-hour EC50 = >100
Diethylene glycol	111-46-6	Fish, daphnia and algae	>100
Nonylphenol, ethoxylated	127087-87-0	Lepomis macrochirus	96- hour LC50 = 84.70
		Daphnia magna	48-hour EC50 = 23.06
		Desmodesmus subspicatus	72-hour EC50 = 19.5

12.2 Persistence and degradability

- No data available for the components of the product.

12.3 Bioaccumulative potential

- No potential for bioaccumulation of sodium metasilicate (CAS No. 6834-92-0), and diethylene glycol (CAS No. 111-46-6)
- 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):
No 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:
No 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: Nonylphenol, ethoxylated (CAS No. 127087-87-0) 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: Ethylene oxide (CAS No. 75-21-8) is listed as a trace contaminant in the product. Warnings are not required based on the concentration. No other components in this product are listed.

International:

IARC: Ethylene oxide (CAS No. 75-21-8) is listed as a Group 1 carcinogen. No other 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:
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Revision Indicator: This is a second revision Safety Data Sheet.
Creation Date: April 09, 2020