Speedball Professional Relief Ink

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: **April 19, 2021**

According to: Article 18(3)(a) of Regulation (EC) No 1272/2008

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

1.1 Product identifier

Product Name: Speedball Professional Relief Ink Supergraphic Black, Crimson Red, Phthalo Blue, Titanium White, Phthalo Green, Hansa Yellow Light, Dairylide Yellow, Dioxazine Violet, Quinacridone Red, Ultramarine Blue, Transparent Base
(37cc tube, 150 cc tube, 8 oz., 16 oz.)

Other Means of Identification: None known
Product Description: Colored liquid/paste ink formulations intended for all types of relief printing, specifically linocut and woodcut.

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 Europe
Villantipolis 5
473 route des Dollines
06560 Valbonne, France
Business Phone: +33 6 03 36 21 73

Email: europe@speedballart.eu

1.4 Emergency telephone number

Emergency Telephone: Transportation emergencies only: Infotrac 1-352-323-3500

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: Regulation (EC) No 1272/2008 [CLP]

	Health	**Environment**	**Physical**
Classification according to Regulation (EC) No 1272/2008 [CLP]	Not classified	Not classified	Not classified
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	N/A	N/A	N/A

2.2. Label elements

Label Pictogram: None
Signal Word: None
Hazard Statement: None
Precautionary Statement: None
Supplemental Hazard Information: EUH211: 'Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.'

2.3. Other hazards

- This product contains fatty acids, C9-13-neo-, cobalt salts (CAS No. 68955-83-9) which has been classified for carcinogenicity Category 2. If a Category 2 Carcinogen ingredient is present in the mixture at a concentration between 0.1% and 1% every regulatory authority would require information on the SDS for a product. However, a label warning would be optional. Some authorities will choose to label when the ingredient is present in the mixture between 0.1% and 1%, whereas others would normally not require a label in this case.

Section 3 – Composition / Information on Ingredients

Chemical Name	CAS No.	EC No.	% Concentration
2-Butoxyethanol	111-76-2	203-905-0	up to 3.3847%
Hydricryl™ 132	N/A (proprietary mixture)	N/A (proprietary mixture)	up to 7.7994%
Diethylene glycol methyl ether	111-77-3	203-906-6	up to 0.1698%
Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,	126-86-3	204-809-1	up to 0.3949%
Fatty acids, C9-13-neo-, cobalt salts	68955-83-9	273-293-8	up to 0.1045%
2-Ethylhexanoic acid, zirconium salt	22464-99-9	245-018-1	up to 0.1161%
Carbon black	1333-86-4	215-609-9	up to 19.5920%
Titanium dioxide	13463-67-7	236-675-5	up to 45.6624%
Propylidynetrimethanol	77-99-6	201-074-9	up to 0.4566%

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.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. If irritation occurs, remove contact lenses if present and easy to do – rinse eyes with water. If eye irritation persists: Get medical advice/attention.

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

Inhalation: 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:
  - 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.
- 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:

Chemical Name	CAS No.	ACGIH TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAK
2-Butoxyethanol	111-76-2	97 mg/m^3	240 mg/m^3	24 mg/m^3	49 mg/m^3
Carbon black	1333-86-4	3 mg/m^3	3.5 mg/m^3	3.5 mg/m^3	N/A
Titanium dioxide	13463-67-7	10 mg/m^3	15 mg/m^3	N/A	N/A

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: If splash/spray is likely, wear chemical safety goggles approved by appropriate regulatory standards.

Hands/Skin: If skin contact is likely, wear chemical resistant gloves. If necessary, refer to appropriate regulatory standards.

Body: If body contact is likely, 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:** **Color:** **Odor/Odor 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):	1.07 – 1.54	**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

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: None expected under conditions of normal use.

Acute oral toxicity:	2-Butoxyethanol (CAS No. 111-76-2) has been classified for acute oral toxicity. However, the product is practically non-toxic based on available animal and human use data. ATE >2000 mg/kg
Acute dermal toxicity:	Practically nontoxic based on available animal and human use data.
Acute inhalation toxicity:	2-Butoxyethanol (CAS No. 111-76-2) has been classified for acute inhalation toxicity. However, the product is practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	2-Butoxyethanol (CAS No. 111-76-2) has been classified for skin irritation. The other components of this product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	2-Butoxyethanol (CAS No. 111-76-2) and the proprietary mixture HYDRICRYL™ 132 have been classified for eye irritation. The other components of this product are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,(CAS No. 126-86-3) and fatty acids, C9-13-neo-, cobalt salts (CAS No. 68955-83-9) have been classified for 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:	Fatty acids, C9-13-neo-, cobalt salts (CAS No. 68955-83-9) has been classified for carcinogenicity (Category 2). Carbon black (CAS No. 1333-86-4) and titanium dioxide (CAS No. 13463-67-7) (respirable particles) have been classified for carcinogenicity (Category 2). The other components in the product

	are not carcinogenic based on animal studies or no data identified for the components in this product.
Reproductive Toxicity:	Diethylene glycol methyl ether (CAS No. 111-77-3), 2-ethylhexanoic acid, zirconium salt (CAS No. 22464-99-9), and propylidynetrimethanol (CAS No. 77-99-6) has been classified for reproductive toxicity (Category 2). The other 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. 2021. REACH Registered Substances Database.

Section 12 – Ecological Information

12.1 Toxicity

Chemical Name	CAS No.	Species	Value
2-Butoxyethanol	111-76-2	Oncorhynchus mykiss	96-hour LD50 = 1474 mg/L
		Hydra att.	72-hour EC_{50} = 690 mg/L
		Pseudokirchneriella subcapitata	72-hour EC_{50} = 623 mg/L
Carbon black	1333-86-4	Leuciscus idus	96-hour LC_{50} >1000 mg/L
		Daphnia magna	24-hour EC_{50} >5600 mg/L
		Desmodesmus subspicatus	72-hour EC_{50} = >10000 mg/L
Titanium dioxide	13463-67-7	Daphnia magna	48-hour EC_{50} = >100 to >1,000 mg TiO_2/L
		Pimephales promelas, Oncorhynchus mykiss	96-hour LC_{50} = >100 to >1,000 mg TiO_2/L
		Cyprinodon variegatus	96-hour LC_{50} = >10,000 mg TiO_2/L
		Acartia tonsa	48-hour LC_{50} = >10,000 mg TiO_2/L

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

12.2 Persistence and degradability

- 2-Butoxyethanol (CAS No. 111-76-2) is readily biodegradable in freshwater with non-adapted bacterial populations and salt water.
- 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. 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.

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group	Not regulated
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

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

European Union
Seveso Directive (2012/18/EU): Ethylene oxide (CAS No. 75-21-8) is listed.
Regulation (EC) No. 1005/2009, Annex I and II: No components in this product are listed.
Regulation (EC) No. 689/2008, Annex I, Parts I-III: Ethylene oxide (CAS No. 75-21-8) is listed.
Regulation (EC) No. 850/2004, Annex I: No components in this product are listed.

Germany:
Wassergefährdungsklasse (water hazard class): WGK 0 – Nicht wassergefährdend.

International:
IARC: Titanium dioxide (CAS No. 13463-67-7) is listed in Category 2B. Carbon black (CAS No. 1333-86-4) is listed in Category 2B. No components in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the components in this product.

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American conference of Governmental Hygenists	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaf Maximale Arbeitsplatz-Konzentration	REL: Recommended exposure level
EC: European Commission	RID: International rule for transport of dangerous
EC50: Effective concentration 50%	SDS: Safety Data Sheet
ECHA: European Chemicals Agency	TLV: Threshold limit value
HEPA: High Efficiency Particulate Air	TWA: Time-weighted average
IBC: International Bulk Chemical	UN: United Nations
IARC: International Agency for Research on Cancer	vPvB: very Persistent, very Bioaccumulative
MARPOL: Maritime Pollution	WGK: Wassergefährdungsklasse
PBT: Persistent, Bioaccumulative and Toxic	

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 new Safety Data Sheet.
Creation Date: April 19, 2021