

Safety Data Sheet

according to Regulation (EC) No 1907/2006, Article 31,
as modified by Regulation (EU) No 2020/879

Edition 3

Printing date : 13/04/2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: **SWISSJET SP5 Magenta**

Trade code:

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

Recommended use:

Digital printing ink

Uses advised against:

All those who are not listed in the recommended uses

1.3. Details of the supplier of the safety data sheet

Company: Swiss Performance Chemicals

Rothaustasse 61

4132 Muttensz

Switzerland

Competent person responsible for the safety data sheet:

1.4. Emergency telephone number

Tel. +41 (0) 618261031

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Skin Sens. 1A, May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of waste product or used containers according to local regulations

Special Provisions:

None

Contains

Disperse Red 60, 1-Amino-4-hydroxy-2-phenoxyanthrachinon

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:


No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Components		CLP Classification	Product identifier
C.I. Disperse Red 60	5% ≤ x < 7%	 3.4.2/1B Skin Sens. 1A H317	CAS: 17418-58-5 EC: 241-442-6 REACH No.: 01-21200947-12-53-0005
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.1%	Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 [SensSk1: C ≥ 0,05 %]	CAS-No.: 2634-33-5 EC-No.: 220-120-9 Index-No: 613-088-00-6

Note: Upper limit is not included into the range. The full wording of hazard (H) phrases is given in section 16 of the sheet.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with skin:

Wash with plenty of water and soap.

Contact with eyes:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended extinguishers:

Water, CO₂, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

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Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

Adopt good working practices, so that the product is not released into the environment.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

C.I. Disperse Red 60, 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Worker Industry: 3.53 mg/m³ - Worker Professional: 3.53 mg/m³ - Exposure: Human

Inhalation - Frequency: Short Term, systemic effects

Consumer: 0.5 03 - Exposure: Human Oral - Frequency: Long Term (repeated)

Consumer: 0.87 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Disperse Red 60, 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Target: Fresh Water - Value: 0.1 mg/l

Target: Marine water - Value: 0.01 mg/l

Target: Freshwater sediments - Value: 217 05

Target: Marine water sediments - Value: 21.7 05

Target: Microorganisms in sewage treatments - Value: 10 mg/l

8.2. Exposure controls

Eye protection:

Safety glasses for protection against chemicals (EN166).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Wear suitable gloves tested to EN374.

Respiratory protection:

Not needed for normal use.

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Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance:	liquid	--	--
Colour:	red3	--	--
Odour:	mild	--	--
Odour threshold:	not available	--	--
pH:	8.5 -9.5	--	@ 25 °C
Melting point / freezing point:	not available	--	--
Initial boiling point and boiling range:	> 100°C / 212 °F	--	--
Flash point:	> 130 °C / 266 °F	--	--
Evaporation rate:	not available	--	--
Solid/gas flammability:	not applicable	--	Not applicable, it's a liquid
Upper/lower flammability or explosive limits:	not available	--	--
Vapour pressure:	not available	--	--
Vapour density:	not available	--	--
Relative density:	1.090	--	@ 25 °C
Solubility in water:	soluble	--	--
Solubility in oil:	not available	--	--
Partition coefficient (n-octanol/water):	not available	--	--
Auto-ignition temperature:	not available	--	--
Decomposition temperature:	not available	--	--
Viscosity:	4- 6 cPs	--	@ 25 °C
Explosive properties:	not applicable	Regulation (EC) No 1907/2006, Annex VII, Column 2, point 7.11	no chemical groups associated with explosive properties
Oxidizing properties:	not applicable	Regulation (EC) No 1907/2006, Annex VII,	the product is incapable of reacting exothermically with combustible materials

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		Column 2, point 7.13	
9.2. Other information			
Properties	Value	Method:	Notes:
Miscibility:	miscible	--	--
Fat Solubility:	not available	--	--
Conductivity:	<3000 µS/cm	--	@ 25°C

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

a) acute toxicity

No data is available on the product itself.

b) skin corrosion/irritation

Not classified

Based on calculation method, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on calculation method, the classification criteria are not met

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1A H317

e) germ cell mutagenicity

Not classified

Based on calculation method, the classification criteria are not met

f) carcinogenicity

Not classified

Based on calculation method, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on calculation method, the classification criteria are not met

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- h) STOT-single exposure
Not classified
Based on calculation method, the classification criteria are not met
 - i) STOT-repeated exposure
Not classified
Based on calculation method, the classification criteria are not met
 - j) aspiration hazard
Not classified
Based on calculation method, the classification criteria are not met
- Toxicological information of the main substances found in the product:
- C.I. Disperse Red 60, - CAS: 17418-58-5**
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2772 mg/kg bw/day - Source: Registrant's Study Report - Notes: equivalent/smilar to OECD 401
 - b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
 - c) serious eye damage/irritation:
Test: Eye Irritant - Route: OCULARE - Species: Rabbit Negative
 - d) Respiratory / skin sensitization:
Test: Skin Sensitization - Route: Skin - Species: Guinea Pig Positive –
Source: Registrant's Study Report - Notes: OECD 406 - in vivo
 - e) germ cell mutagenicity:
Test: Mutagenesis - Route: Oral Negative - Source: Registrant's Study Report - Notes: OECD 471 (in vivo) / OECD473 (in vitro)
 - g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat Negative 1000 mg/kg bw/day - Source: Registrant's Study Report - Notes: OECD 422
 - i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat Negative 300 mg/kg bw/day - Source: Registrant's Study Report - Notes: OECD 422
- 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)**
- a) acute toxicity
Oral LD50 Rat = 1020 mg/kg (NZ_CCID)
 - b) skin corrosion/irritation:
Not available
 - c) serious eye damage/irritation:
Not available
 - d) Respiratory / skin sensitization:
Not available

SECTION 12: Ecological information

12.1. Toxicity

- Ecotoxicological information of the product:
Not classified for environmental hazards
Based on calculation method, the classification criteria are not met
- Ecotoxicological information of the main substances found in the product:
- C.I. Disperse Red 60, - CAS: 17418-58-5**
- a) Aquatic acute toxicity:

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Endpoint: LC50 - Species: Fish 162 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss - equivalent/similar to OECD 203

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia Magna - OECD 202

Endpoint: EC5 - Species: Daphnia = 100 mg/l - Duration h: 48 - Notes: Daphnia Magna - OECD 202

Endpoint: EC50 - Species: Algae 100 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata - OECD 201

f) Effects in sewage plants:

Endpoint: EC50 - Species: Active sludges > 1000 mg/l - Notes: fanghi attivi - OECD 209

1,2-benzisothiazol-3(2H)-one (CAS 2634-33-5)

EU - Ecolabel (66/2010) – Detergent Not biodegradable under anaerobic conditions

Ingredient Database - Anaerobic Degradation

EU - Ecolabel (66/2010) – Detergent Inherently biodegradable according to OECD guidelines

Ingredient Database - Aerobic Degradation

12.2. Persistence and degradability

Disperse Red 60, 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Biodegradability: Non-readily biodegradable - Test: BOD5/DOC - Duration h: .20D - %: 0.01 - Notes: N.A.

12.3. Bioaccumulative potential

Disperse Red 60, 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 6.33 - Duration h: N.A. - Notes: aquatic environment - estimated with EUSES 2.1.2

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 1.54 - Duration h: N.A. - Notes: soil - estimated with EUSES 2.1.2

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Dispose of waste product or used containers according to local regulations.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

ADR-UN number: not applicable

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IATA-Un number:	not applicable
IMDG-Un number:	not applicable
14.2. UN proper shipping name	
ADR-Shipping Name:	not applicable
IATA-Shipping Name:	not applicable
IATA-Technical name:	not applicable
IMDG-Shipping Name:	not applicable
IMDG-Technical name:	not applicable
14.3. Transport hazard class(es)	
ADR-Label:	not applicable
IATA-Label:	not applicable
IMDG-Label:	not applicable
14.4. Packing group	
ADR-Packing Group:	not applicable
IATA-Packing group:	not applicable
IMDG-Packing group:	not applicable
14.5. Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
14.6. Special precautions for user	
ADR-Tunnel Restriction Code:	not applicable
IATA-Passenger Aircraft:	not applicable
IATA-Cargo Aircraft:	not applicable
IMDG-Page:	not applicable
IMDG-EMS:	not applicable
IMDG-MFAG:	not applicable
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
No	

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values)
 Regulation (EC) n. 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) 2015/830
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) Nr. 2017/776 (10. ATP CLP)
 Regulation (EU) Nr. 2018/699 (11. ATP CLP)
 Regulation (EU) Nr. 2018/1480 (13. ATP CLP)
 Regulation (EU) Nr. 2019/521 (12. ATP CLP)

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Regulation (EU) Nr. 2020/217 (14. ATP CLP)
 Regulation (EU) Nr. 2020/1182 (15. ATP CLP)
 Regulation (EU) Nr. 2021/643 (16. ATP CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 28

Restriction 72

Volatile Organic compounds - VOCs = 1.12 %

Volatile Organic compounds - VOCs = 11.18 g/Kg

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

Full text of phrases referred to under sections 2 and 3

H302: Harmful if swallowed.

H315: Causes skin irritation

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
 Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
 Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ADR: European Agreement concerning the International Carriage of Dangerous
 Goods by Road.

ATE: Acute toxicity estimates

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ATE Mix	Acute toxicity estimates for Mixtures
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.