

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE/MIXTURE

The product is not classified according to Regulation (EC) No. 1272/2008 (CLP)

2.2 LABEL ELEMENTS

Hazard Pictograms	Not applicable
Signal Word	Not applicable
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
Response Precautionary Codes	Not applicable
Storage Precautionary Codes	Not applicable
Disposal Precautionary Codes	Not applicable

2.3 OTHER HAZARDS

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

According to (EC) No.1907/2006 and amendment (EU) 2015/830

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable

3.2 MIXTURES

Black Ink			
Components	%W/W	CAS No.	EC No.
Industrial Spirit	0 – 69.71	64-17-5	200-578-6
Dowanol – PM	0 – 10	107-98-2	203-539-1
Rosin Acid	0 - 0.09	73138-82-6	277-299-1
CO Polymer	0 – 9.1	25054-06-2	607-515-5
Solvent Red 39	0 – 0.9	65138-66-1	265-499-1
N Propanol	0 – 0.9	71-23-8	200-746-9
N Butanol	0 – 0.9	71-36-3	200-751-6
Solvent Black 46-2	0 – 8.5	65294-17-9	265-686-8

Blue Ink			
Components	%W/W	CAS No.	EC No.
Industrial Spirit	0 – 68.11	64-17-5	200-578-6
Dowanol – PM	0 – 14	107-98-2	203-539-1
Solvent Blue 4	0 – 0.9	6786-83-0	229-851-8
Rosin Acid	0 – 0.09	73138-82-6	277-299-1
Co Polymer	0 – 9.1	25054-06-2	607-515-5
N Propanol	0 – 0.9	71-23-8	200-746-9
N Butanol	0 – 0.9	71-36-3	200-751-6
Solvent Blue 43	0 – 5.61	61813-75-0	612-411-8
Basic Blue 7	0 – 0.3	2390-60-5	219-232-0
Basic Blue 26	0 – 0.09	2580-56-5	219-943-6

Red Ink			
Components	%W/W	CAS No.	EC No.
Industrial Spirit	38 – 71.41	64-17-5	200-578-6
Dowanol – PM	0 – 14	107-98-2	203-539-1
Solvent Red 39	0 – 0.9	65138-66-1	265-499-1
N Propanol	0 – 0.9	71-23-8	200-746-9
N Butanol	0 – 0.9	71-36-3	200-751-6
CO Polymer	0 – 10	25054-06-2	607-515-5
Solvent Red 49	0 – 0.9	509-34-2	208-096-8
Solvent Orange 62	0 – 0.9	52256-37-8	257-789-1
Basic Red 1	0 – 0.09	989-38-8	213-584-9

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- General description: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No further relevant information available.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

- Suitable Extinguishing Media Sand, foam, dry chemical, carbon dioxide (CO₂), Alcohol resistant foams (ATC) are preferred, if available.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No further relevant information available.

5.3 ADVICE FOR FIREFIGHTERS

Protective equipment: no special measures required.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective equipment. Keep unprotected persons away.

6.2 ENVIRONMENTAL PRECAUTIONS

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13 Ensure adequate ventilation.

6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

For the general occupational hygienic measures refer to Section 8.

Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES

Store in a cool location.

Information about storage in one common storage facility:

Not required.

According to (EC) No.1907/2006 and amendment (EU) 2015/830

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

7.3 SPECIFIC END USE(S)

No further relevant information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 APPROPRIATE ENGINEERING CONTROLS

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Personal protective equipment

Respiratory protection: Not required.

Protection of hands: Protective gloves

The glove material must be impermeable and resistant to the product.
No recommendation to the glove material can be given for the product.

Eye protection: Tightly sealed goggles

8.2 ENVIRONMENTAL EXPOSURE CONTROLS

Control measures must be made in accordance with environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

	Black Ink	Blue Ink	Red Ink
Form	No data available	No data available	No data available
Colour	Black	Blue	Red
Odour	No data available	No data available	No data available
pH (Value)	4.5	5.5	6.5
Decomposition Temperature (°C)	No data available	No data available	No data available
Boiling point/boiling range (°C)	No data available	No data available	No data available
Melting Point/range (°C)	No data available	No data available	No data available
Flash Point (°C) [Closed cup]	No data available	No data available	No data available
Auto Ignition Temperature (°C)	No data available	No data available	No data available
Explosive Properties	No data available	No data available	No data available
Minimum Ignition Energy (mJ)	No data available	No data available	No data available
Oxidising Properties	No data available	No data available	No data available
Flammability (solid, gas)	No data available	No data available	No data available
Vapour Pressure (Pascal)	No data available	No data available	No data available
Vapour density	No data available	No data available	No data available
Density at 25 °C g/cm ³ (± 0.02)	0.885	0.880	0.880
Specific Gravity	No data available	No data available	No data available
Solubility (Water)	No data available	No data available	No data available
Viscosity at 25 °C Cps (± 0.5)	3.7	3.8	3.3
Surface tension Dyne/cm ³ (± 5)	20	22	22
Evaporation rate	No data available	No data available	No data available
Partition coefficient: n-Octanol/ water	No data available	No data available	No data available
Acid Value (mgKOH/g)	No data available	No data available	No data available
Moisture (%)	No data available	No data available	No data available
Peroxide Number (mmol/kg)	No data available	No data available	No data available

9.2 OTHER INFORMATION

No information available.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable under recommended storage and handling conditions.

10.2 CHEMICAL STABILITY

Stable under normal conditions of use, storage and transport.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

10.4 CONDITIONS TO AVOID

No information available.

10.5 INCOMPATIBLE MATERIALS

No information available.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No information available.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

No information available.

Skin corrosion/irritation:

No information available.

Serious eye damage/irritation:

No information available.

Respiratory or skin sensitization:

No sensitizing effects known.

According to (EC) No.1907/2006 and amendment (EU) 2015/830

Toxicokinetic, metabolism and distribution:

No information available.

CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction):

No information available.

11.2 INFORMATION ON OTHER HAZARDS**Endocrine disrupting properties**

This mixture does not contain endocrine disruptors.

12 ECOLOGICAL INFORMATION

12.1 TOXICITY

Aquatic toxicity: No further relevant information available.

12.2 PERSISTENCE AND DEGRADABILITY

No further relevant information available.

12.3 BIOACCUMULATIVE POTENTIAL

No further relevant information available.

12.4 MOBILITY IN SOIL

No further relevant information available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT: Not applicable.

vPvB: Not applicable.

12.6 OTHER ADVERSE EFFECTS

No information available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Recommendation:

Must not be disposed together with household garbage.
Do not allow product to reach sewage system.

14 TRANSPORT INFORMATION

14.1 UN-NUMBER

ADR, RID, ADN, IMDG, IATA Not applicable

14.2 UN PROPER SHIPPING NAME

ADR, RID, ADN, IMDG, IATA Not applicable

14.3 TRANSPORT HAZARD CLASS (ES)

ADR, RID, ADN, IMDG, IATA Not applicable

Class Not applicable
Label Not applicable

14.4 PACKING GROUP Not applicable

14.5 ENVIRONMENTAL HAZARDS Not applicable

14.6 SPECIAL PRECAUTIONS FOR USER Not applicable

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE "MODEL REGULATION Not applicable

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS/LEGISLATION FOR THE SUBSTANCE/MIXTURE

The Safety Data Sheet is compiled according to the current UK requirements.

Regulation (EC)No 1272/2008

Commission of regulation 2017/542

Commission Regulation (EU) 2015/830

Regulation (EC) No 1907/2006

Regulation (EC) No 528/2012

Regulation (EU) No 1107/2009

SVHC Candidate list of REACH Regulation annex XIV Authorization

REACH Regulation Annex XVII Restriction

REACH Regulation Annex XIV Authorization List

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations

International Maritime Dangerous Goods

Technical Instructions for the Safe Transport of Dangerous Goods

15.2 CHEMICAL SAFETY ASSESSMENT

Carried out by Duke University School of Medicine to ASTM-D4236.

16. OTHER INFORMATION

DISCLAIMER: The information provided in this Safety Data Sheet (SDS) is based upon the current level of information available with us for the purpose of specifying the requirements regarding environment, health, and safety in conjunction with this product. It should not therefore be interpreted as a warranty for any specific characteristics of the product. It is the user's responsibility to take mentioned precautionary measures and ensure that this information is complete and sufficient for the use, processing, and handling of the product. This SDS was prepared by ROYD Tool Group; however, the information is provided without any warranty, expressed, or implied regarding its correctness. The SDS provided here relates only to this product and does not relate to its use in combination with any other product or material or in any process. The suitability of the product for any particular use needs to be investigated by the user; all risks of use, storage, handling, transportation, and disposal of the product are therefore assumed by the user. ROYD Tool Group or the above-named supplier, or any of its subsidiaries do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with use, storage, handling, transportation, and disposal of the product. Appropriate warnings and safe handling procedures should be provided to all handlers and users.