

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

1.1. Product identifier

Product form : Mixture
Product name : SUBLIMATION INK SB53 BLACK
UFI : Y24Q-WUK1-730C-MM77
Product code : SB53-K-2L
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Title	Use descriptors
SUBLIMATION INK SB53 BLACK	SU0, PC18, PROC1

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Mimaki Europe B.V.
Stammerdijk 7E
1112 AA Diemen
Netherlands
T +31 20 4627640
reach@mimakieurope.com

1.4. Emergency telephone number

Emergency number : National Poisons Information Centre +31 (0)30 - 274 8888
(Only for the purpose of informing medical personnel in cases of accidental intoxications.
The emergency phone number is 24 hours/day available.)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 4 H413
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

1,2-benzisothiazol-3(2H)-one; 1-hydroxy-4-(p-toluidino)anthraquinone; 1-amino-4-hydroxy-2-phenoxyanthraquinone

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P273 - Avoid release to the environment.
P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-hydroxy-4-(p-toluidino)anthraquinone	CAS-No.: 81-48-1 EC-No.: 241-442-6 REACH-no: 01-2120761559-41	30 – 75	Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Propane-1,2-diol substance with national workplace exposure limit(s) (GB)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23	10 – 30	Not classified
Glycerol substance with national workplace exposure limit(s) (GB)	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987-18	5 – 10	Not classified
2-2'-methyliminodiethanol	CAS-No.: 105-59-9 EC-No.: 203-312-7 EC Index-No.: 603-079-00-5 REACH-no: 01-2119488970-24	1 – 10	Eye Irrit. 2, H319

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Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-amino-4-hydroxy-2-phenoxyanthraquinone	CAS-No.: 17418-58-5 EC-No.: 241-442-6 REACH-no: 01-2120094712-53	1 – 5	Skin Sens. 1A, H317
2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated	CAS-No.: 9014-85-1 EC-No.: 500-022-5 REACH-no: 01-2119954393-33	0,1 – 5	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	< 0,05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	(0,05 ≤ C ≤ 100) Skin Sens. 1, H317

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest. Seek medical attention if ill effect or irritation develops.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing Gas, fume, Vapours, Aerosols. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Extremely high or low temperatures. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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Propane-1,2-diol (57-55-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Propane-1,2-diol
WEL TWA (OEL TWA) [1]	10 mg/m ³ particulates 474 mg/m ³ total vapour and particulates
WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Glycerol (56-81-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (OEL TWA) [1]	10 mg/m ³ mist
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
8.1.2. Recommended monitoring procedures	
No additional information available	
8.1.3. Air contaminants formed	
No additional information available	
8.1.4. DNEL and PNEC	
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	966 µg/kg dw
Long-term - systemic effects, inhalation	6,81 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	1,2 mg/m ³
Long-term - systemic effects, dermal	345 µg/kg dw
PNEC (Water)	
PNEC aqua (freshwater)	4,03 µg/L
PNEC aqua (marine water)	403 ng/l
PNEC aqua (intermittent, freshwater)	1,1 µg/L
PNEC aqua (intermittent, marine water)	110 ng/l
PNEC (Sediment)	
PNEC sediment (freshwater)	49,9 mg/kg dwt
PNEC sediment (marine water)	4,99 mg/kg dwt
PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1,03 mg/l
2-2'-methyliminodiethanol (105-59-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	19 mg/kg bodyweight/day
Long-term - local effects, dermal	0,05 mg/cm ²

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2-2'-methyliminodiethanol (105-59-9)	
Long-term - systemic effects, inhalation	26 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1,9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,5 mg/m ³
Long-term - systemic effects, dermal	9,4 mg/kg bodyweight/day
Long-term - local effects, dermal	0,03 mg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0,1 mg/l
PNEC aqua (marine water)	0,0045 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,78 mg/kg dwt
PNEC sediment (marine water)	0,0351 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,097 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses (acc. EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 13034

Hand protection:

Wear suitable gloves resistant to chemical penetration. Use neoprene gloves. Wear rubber gloves (0.75mm). Breakthrough time (EN 374-3:2003): No data available (www.echa.europa.eu)

8.2.2.3. Respiratory protection

Respiratory protection:

Where excessive vapour may result, wear approved mask

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Black.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7 – 7,5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 3 – 6 mPa.s (25°C)
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 23 hPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: 1,1
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 15 %

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

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

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10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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

LD50 oral rat 490 – 670 mg/kg

LD50 dermal rat 2000 mg/kg

Propane-1,2-diol (57-55-6)

LD50 oral rat 22000 mg/kg bodyweight Animal: rat, Remarks on results: other:

LD50 dermal rabbit > 2000 mg/kg bodyweight Animal: rabbit

LC50 Inhalation - Rat > 44,9 mg/l air Animal: rat, Guideline: other., Remarks on results: other:

2-2'-methyliminodiethanol (105-59-9)

LD50 oral rat 4680 mg/kg

LD50 dermal rabbit 2000 – 11336 mg/kg

2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated (9014-85-1)

LD50 oral rat > 500 mg/kg bodyweight Animal: rat, Guideline: other:Guide to Precautionary Labeling of Hazardous Chemicals, Seventh Edition - 1970, published by the Manufacturing Chemist's Association

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LC50 Inhalation - Rat 500 mg/kg

Glycerol (56-81-5)

LD50 oral rat 27 mg/kg bodyweight Animal: rat, Animal sex: female

1-amino-4-hydroxy-2-phenoxyanthraquinone (17418-58-5)

LD50 oral rat 2772 mg/kg

Skin corrosion/irritation : Not classified
pH: 7 – 7,5

Additional information : Based on available data, the classification criteria are not met

2-2'-methyliminodiethanol (105-59-9)

pH 11,5 Temp.: 20 Concentration: 100 g/L

Serious eye damage/irritation : Not classified
pH: 7 – 7,5

Additional information : Based on available data, the classification criteria are not met

2-2'-methyliminodiethanol (105-59-9)

pH 11,5 Temp.: 20 Concentration: 100 g/L

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

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Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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

NOAEL (animal/female, F1)	56,6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
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STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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

NOAEL (oral, rat, 90 days)	69 – 150 mg/kg bodyweight/day
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Propane-1,2-diol (57-55-6)

NOAEL (subchronic, oral, animal/male, 90 days)	443 mg/kg bodyweight Animal: cat, Animal sex: male
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1-hydroxy-4-(p-toluidino)anthraquinone (81-48-1)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
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2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated (9014-85-1)

NOAEL (oral, rat, 90 days)	6000 ppm
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1-amino-4-hydroxy-2-phenoxyanthraquinone (17418-58-5)

NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight/day
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Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

2-2'-methyliminodiethanol (105-59-9)

Viscosity, kinematic	99,05 mm ² /s
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2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated (9014-85-1)

Viscosity, kinematic	< 204,082 mm ² /s
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: May cause long lasting harmful effects to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: May cause long lasting harmful effects to aquatic life.

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

LC50 - Fish [1]	2,15 – 22 mg/l
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1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LC50 - Fish [2]	2,15 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	2,9 – 2,94 mg/l
EC50 - Crustacea [2]	2,9 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	70 – 150 µg/L
Propane-1,2-diol (57-55-6)	
LC50 - Fish [1]	51600 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
LC50 - Fish [2]	51400 mg/l Test organisms (species): <i>Pimephales promelas</i>
EC50 72h - Algae [1]	24200 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	19300 mg/l Test organisms (species): <i>Skeletonema costatum</i>
EC50 96h - Algae [1]	19000 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 96h - Algae [2]	19100 mg/l Test organisms (species): <i>Skeletonema costatum</i>
1-hydroxy-4-(p-toluidino)anthraquinone (81-48-1)	
LC50 - Fish [1]	500 mg/l
EC50 - Crustacea [1]	100 mg/l
EC50 72h - Algae [1]	1,1 mg/l
2-2'-methyliminodiethanol (105-59-9)	
LC50 - Fish [1]	1,446 g/l
EC50 - Crustacea [1]	233 mg/l
EC50 72h - Algae [1]	100 mg/l
LOEC (acute)	12,5 mg/l 72h
NOEC (acute)	1000 mg/l 96h
2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated (9014-85-1)	
LC50 - Fish [1]	42 mg/l Test organisms (species): <i>Cyprinus carpio</i>
LC50 - Fish [2]	52,5 mg/l Test organisms (species): other:
EC50 - Crustacea [1]	91 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	15 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
NOEC (acute)	> 1 mg/l 72h
Glycerol (56-81-5)	
LC50 - Fish [1]	54000 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
1-amino-4-hydroxy-2-phenoxyanthraquinone (17418-58-5)	
LC50 - Fish [1]	162 mg/l
EC50 - Crustacea [1]	80,3 – 100 mg/l
EC50 72h - Algae [1]	100 mg/l

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12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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1,2-benzisothiazol-3(2H)-one (2634-33-5)

Bioconcentration factor (BCF REACH)	6,62
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Partition coefficient n-octanol/water (Log Pow)	0,7 @ 20°C
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1-hydroxy-4-(p-toluidino)anthraquinone (81-48-1)

Partition coefficient n-octanol/water (Log Pow)	4,26 @ 25°C
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2-2'-methyliminodiethanol (105-59-9)

Partition coefficient n-octanol/water (Log Pow)	-1,16 – -1,08 @ 25 °C and pH 10.1 - 10.5
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2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated (9014-85-1)

Partition coefficient n-octanol/water (Log Pow)	2,5 @ 21°C
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1-amino-4-hydroxy-2-phenoxyanthraquinone (17418-58-5)

Partition coefficient n-octanol/water (Log Pow)	1,766 @ 20 °C
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 03 12* - waste ink containing dangerous substances
HP Code	: HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3.	2-2'-methyliminodiethanol	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
3(b)	SUBLIMATION INK SB53 BLACK ; 2-2'-methyliminodiethanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	SUBLIMATION INK SB53 BLACK	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 15 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Flammability (solid, gas)	Added	
	Supersedes	Modified	
	Revision date	Modified	
	SDS EU format	Modified	
	Supplemental information	Added	
1.1	Product code	Modified	
1.2	Industrial/Professional use spec	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	Hazard pictograms (CLP)	Added	
2.2	Hazard statements (CLP)	Added	
2.2	Signal word (CLP)	Added	

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Indication of changes			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after ingestion	Modified	
4.2	Symptoms/effects after inhalation	Added	
5.1	Suitable extinguishing media	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Hygiene measures	Added	
7.2	Incompatible products	Added	
7.2	Incompatible materials	Added	
8.2	Personal protective equipment	Modified	
8.2	Skin and body protection	Modified	
8.2	Hand protection	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Potential adverse human health effects and symptoms	Added	
12.1	Ecology - water	Added	
12.2	Persistence and degradability	Added	
12.3	Bioaccumulative potential	Added	
15.1	REACH Annex XVII	Added	
16	Abbreviations and acronyms	Added	
16	Other information	Added	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

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Abbreviations and acronyms:	
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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Full text of H- and EUH-statements:

H413	May cause long lasting harmful effects to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B

Full text of use descriptors

PC18	Ink and Toners
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
SU0	Other

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1	H317	Calculation method
Aquatic Chronic 4	H413	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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