

Product name : WDBLK2 - 40016702
SDS Number : 14A049

Version : 5.2

Date Prepared : 22.07.2014
Revision Date : 07.03.2024

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

1.1. Product identifier

Product name : WDBLK2 - 40016702
UFI Code : S1KA-NVJ0-6202-X6N8
(France, Italy, Germany, Netherlands and Portugal only.)

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

Recommended use : Ink for ink jet printer

1.3. Details of the supplier of the safety data sheet

Company : Weber Marking Systems GmbH
Maarweg 33; 53619 Rheinbreitbach; Germany
Telephone : +49 (0)2224 77080
Telefax : +49 (0)2224 770820
E-mail address : info@webemarking.de

1.4. Emergency telephone number

24-hour-Emergency-Telephone-Number (Company/Contract ID code:" BSU")
+1 872 5888271 (BSU)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Serious eye damage/eye irritation, Category 2

H319: Causes serious eye irritation.

Reproductive toxicity, Category 1B

H360: May damage fertility or the unborn child.

2.2. Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

Precautionary statements P264 Wash hands thoroughly after handling.

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

P201 Obtain special instructions before use.

Response : P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P308+P313 IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Not a PBT, vPvB substance as per the criteria of the REACH Ordinance.

Endocrine Disruptor Information

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components

Chemical name	wt. %	CAS No. EC No.	REACH Registration No.	Classification (EC) No 1272/2008	SCL, M-factor, ATE
Water	> 60	7732-18-5 273-791-2	-	Not classified	-
2-pyrrolidone	< 15	616-45-5 210-483-1	-	Eye Irrit. 2, H319 Repr. 1B; H360	-
Hexane-1,2-diol	< 10	6920-22-5 230-029-6	-	Eye Irrit. 2; H319	-
Black dye	< 10	Confidential Confidential	-	Not classified	-

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Skin contact : Wash thoroughly with soap and plenty of water while removing all contaminated clothes. If skin irritation occurs: Get medical advice/attention.
- Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to remove. Continue to rinse for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion : Wash mouth with water and seek medical advice.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water, Foam, Carbon dioxide (CO₂), Dry chemical and others.
- Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides, nitrogen oxides will form in fire.

5.3. Advice for firefighters

- Special protective equipment for firefighters : Fight fire from the windward side if possible. Wear suitable protective suit and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions : Wear appropriate personal protective equipment as specified in section 8.

6.2. Environmental precautions

Environmental precautions : Do not release into soil, sewers, river, or the public water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : In the case of a cartridge: Not applicable.

At the time of the leakage of contents: Spills should be cleaned up with absorbent materials.

6.4. Reference to other sections

Refer to Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Prohibition of dropping and throwing. Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Use only in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do not store ink in high or freezing temperature. Keep away from heat and direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s) : No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Components	CAS No.	TWA	STEL	Country
2-pyrrolidone	616-45-5	Not determined	Not determined	-
Hexane-1,2-diol	6920-22-5	Not determined	Not determined	-

Derived No-Effect Level (DNEL)

Components	Type	Exposure routes	Value	Potential health effects
2-pyrrolidone	Workers	Inhalation	57.8 mg/m3	Systemic effects - Long term
	Workers	Dermal	10 mg/kg bw/day	Systemic effects - Long term
Hexane-1,2-diol	Workers	Inhalation	123 mg/m3	Systemic effects - Long term
	Workers	Dermal	17.5 mg/kg bw/day	Systemic effects - Long term

Predicted No-Effect Concentrations (PNECs)

Components	Environmental protection target	Value
2-pyrrolidone	Freshwater	500 µg/L
	Marine water	50 µg/L
	Intermittent releases (freshwater)	5 mg/L
	Intermittent releases (marine water)	-
	Sewage treatment plant	10 mg/L
	Freshwater sediment	2.17 mg/kg sediment dw
	Marine sediment	217 µg/kg sediment dw

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8.2. Exposure controls

- Appropriate engineering controls : Adequate ventilation should be provided so that exposure limits are not exceeded.
- Personal protective equipment
- Eye/face protection : Wear appropriate protective eyeglasses or safety goggles.
 - Hand protection : Wear light-weight plastic or rubber gloves for routine industrial use.
 - Skin and body protection : Work clothes with long sleeves.
 - Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
 - Thermal hazards : Not available
- Environmental exposure controls : Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Black
- Odour : No strong odour is arrowed.
- Melting point/freezing point : No data available
- Boiling point or initial boiling point and boiling range : No data available
- Flammability : No data available
- Lower and upper explosion limit : No data available
- Flash point : Not detected.
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : 8.6 - 10.6 (25 °C)
- Kinematic viscosity : No data available
- Dynamic viscosity : 2.0 - 2.6 mPa·s (25 °C)
- Solubility : Solubility
- Partition coefficient n-octanol/water (log value) : No data available
- Vapour pressure : No data available
- Density and/or relative density : 1.04 (25 °C)
- Relative vapour density : No data available
- Particle characteristics : No data available

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions with proper storage and handling.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid

Extreme high or low temperatures.

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10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides will form in fire.

SECTION 11: Toxicological information

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

Acute toxicity

Components	Oral LD50	Dermal LD50	Inhalation LC50
2-pyrrolidone	(rat) >2000 mg/kg	(rabbit) >2000 mg/kg	No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : Causes serious eye irritation.
Irritating to eyes. [2-pyrrolidone]
Causes serious eye irritation. [Hexane-1,2-diol]

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration hazard : No data available

11.2. Information on other hazards

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards : No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Components	Species	Value
2-pyrrolidone	Fish (Brachidanio rerio)	LC50 (96 h) >4600 mg/l
	Crustacea (Daphnia magna)	EC50 (48 h) >500 mg/l

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Endocrine disrupting properties

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The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Dispose of waste material in accordance with local, state and federal pollution regulations.
- Contaminated packaging : When disposing of an empty container, dispose after removing contents materials completely. Dispose of this material and its container according to your country law.

SECTION 14: Transport information

14.1. UN number or ID number

- ADR/RID : Not dangerous goods.
- IMDG : Not dangerous goods.
- ICAO-TI/IATA-DGR : Not dangerous goods.

14.2. UN proper shipping name

- ADR/RID : Not dangerous goods.
- IMDG : Not dangerous goods.
- ICAO-TI/IATA-DGR : Not dangerous goods.

14.3. Transport hazard class(es)

- ADR/RID : Not dangerous goods.
- IMDG : Not dangerous goods.
- ICAO-TI/IATA-DGR : Not dangerous goods.

14.4. Packing group

- ADR/RID : Not dangerous goods.
- IMDG : Not dangerous goods.
- ICAO-TI/IATA-DGR : Not dangerous goods.

14.5. Environmental hazards

- ADR/RID : Not applicable
- IMDG : Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

(EC) No 1907/2006 (REACH)

Annex XIV (Authorisation) : Not regulated

Annex XVII (Restrictions on use) : Not regulated

Germany

Water hazard class : WGK 1: Slightly water endangering

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes

Issue Date : 07.03.2024

Version : 5.2

Revision information : Change of SECTION 1.

Abbreviations and acronyms

ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	: Chemical Abstracts Service
CLP	: Classification, Labelling and Packaging
DNEL	: Derived No Effect Level
EC	: European Community
EU	: European Union
GHS	: Globally Harmonized System
IARC	: International Agency for Research on Cancer
IATA	: International Air Transport Association
IBC	: Intermediate Bulk Container
ICAO-TI	: Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG	: International Maritime Dangerous Goods
LC50	: Lethal Concentration 50%
LD50	: Lethal Dose 50%
OEL	: Occupational Exposure Limit
PBT	: Persistent, Bioaccumulative and Toxic
PNEC	: Predicted No Effect Concentration
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulation Concerning the International Transport of Dangerous Goods by Rail
STEL	: Short Term Exposure Limit
STOT	: Specific Target Organ Toxicity
TLV	: Threshold Limit Value
TWA	: Time Weighted Average
UN	: United Nations
vPvB	: Very Persistent and Very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1907/2006 (REACH), amended by (EU) 2020/878

Regulation (EC) No 1272/2008 (CLP)

ECHA: Information on Chemicals

3E Insight for Chemicals

SDS of raw material manufacturer

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H319 : Causes serious eye irritation.

H360 : May damage fertility or the unborn child.

Training advice

General occupational hygiene training recommended.

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Further information

Disclaimer

: The information contained herein is based on the current knowledge. This Safety Data Sheet is intended to describe our products in correctness of safety requirements. It should not therefore be construed as guaranteeing specific properties. The data applies to only usual handling.