

Product name : SDBLK4+
SDS Number : 20A026

Version : 4.0

Date Prepared : 17.06.2020
Revision Date : 20.01.2025

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

1.1. Product identifier

Product name : SDBLK4+
UFI Code : 1WGA-0V92-H20P-EP2N
(Germany, Italy, Czech Republic, Netherlands, Spain, Denmark, France 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@webermarking.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

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.

Response : P370+P378 In case of fire: Use an appropriate extinguishing agent for extinction.

Storage : P403+P235 Store in a well-ventilated place. Keep cool.

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
Ethanol	50 - 70	64-17-5 200-578-6	01-2119457610- 43-xxxx	Flam. Liq. 2; H225	-
1-Methoxy-2-propanol	10 - 20	107-98-2 203-539-1	-	Flam. Liq. 3; H226 STOT SE 3; H336	-
Dyestuff	6 - 9	117527-94-3 403-720-7	-	Aquatic Chronic 2; H411	-
3-Methyl-2-butanone	1 - 3	563-80-4 209-264-3	-	Flam. Liq. 2; H225	-
Butyl acetate	1 - 1.5	123-86-4 204-658-1	-	Flam. Liq. 3; H226 STOT SE 3; H336	-

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 or rash 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. Get medical attention immediately.
- Ingestion : Wash mouth with water and seek medical advice immediately. Do not induce vomiting.

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

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam, Water spray.
- Unsuitable extinguishing media : Do not use water jet.

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 : Wear suitable protective suit and self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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: Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

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, eyes and clothing. Do not breathe vapours. Use only in a well-ventilated area. Keep away from fire, sparks and heated surfaces. Take precautionary measures against electrostatic discharges.

Hygiene measures : When using do not eat or drink. 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. Do not store ink with acids, oxidizing agents or explosives. 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
Ethanol	64-17-5	-	1000 ppm	Italy
1-Methoxy-2-propanol	107-98-2	375 mg/m3, 100 ppm	568 mg/m3, 150 ppm	European Union
3-Methyl-2-butanone	563-80-4	20 ppm	-	Italy
Butyl acetate	123-86-4	50 ppm, 241 mg/m3	150 ppm, 723 mg/m3	European Union

Derived No-Effect Level (DNEL)

Components	Type	Exposure routes	Value	Potential health effects
Ethanol	Workers	Inhalation	380 mg/m3	Systemic effects - Long-term
			1900 mg/m3	Local effects - Short term
	Workers	Dermal	343 mg/kg	Systemic effects - Long-term

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Predicted No-Effect Concentrations (PNECs)

Components	Environmental protection target	Value
Ethanol	Freshwater	960 µg/L
	Marine water	790 µg/L
	Intermittent releases (freshwater)	2.75 mg/L
	Sewage treatment plant	580 mg/L
	Freshwater sediment	3.6 mg/kg sediment dw
	Marine sediment	2.9 mg/kg sediment dw

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 : Safety glasses with side-shields. Goggles.

Hand protection : Impermeable gloves.

Skin and body protection : Protective suit, Safety shoes.

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 : Alcohol odour

Melting point/freezing point : No data available

Boiling point or initial boiling point and boiling range : 75 °C

Flammability : No data available

Lower and upper explosion limit : No data available

Flash point : 11.5 °C (Closed Cup)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : No data available

Kinematic viscosity : No data available

Dynamic viscosity : 2.30 - 2.70 mPa·s (25 °C)

Solubility : Insolubility

Partition coefficient n-octanol/water (log value) : No data available

Vapour pressure : No data available

Density and/or relative density : 0.865 (25 °C)

Relative vapour density : No data available

Particle characteristics : No data available

9.2. Other information

No further relevant information available.

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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

High temperature, heat, sparks, flames and other sources of ignition. Oxidizing condition.

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
Ethanol	(rat) 6200 mg/kg	(rabbit) LDLo 20000 mg/kg	(rat) 63000 ppm/4 h
1-Methoxy-2-propanol	(rat) 6100 mg/kg	(rabbit) 13000 mg/kg	(mouse) 7395 - 9258 ppm/4h
3-Methyl-2-butanone	(rat) 2572 mg/kg	(rabbit) >5000 mg/kg	(rat) 7810 ppm/4 h
Butyl acetate	(rat) 14130 mg/kg	(rabbit) >5000 mg/kg	No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

STOT-single exposure : Not classified based on available information.
May cause drowsiness or dizziness. [1-Methoxy-2-propanol]

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

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Ecotoxicity

Components	Species	Value
Ethanol	Fish (Pimephales promelas)	LC50 (96 h) >100 mg/L
	Crustacea (Ceriodaphnia)	LC50 (48 h) 5012 mg/L
1-Methoxy-2-propanol	Fish (carp)	LC50 (96 h) 20.8 g/L
Dyestuff	Fish	LC50 2.0 mg/L

12.2. Persistence and degradability

Biodegradability : Dyestuff Not readily biodegradable.

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

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 : UN1210
IMDG : UN1210
ICAO-TI/IATA-DGR : UN1210

14.2. UN proper shipping name

ADR/RID : Printing Ink
IMDG : Printing Ink
ICAO-TI/IATA-DGR : Printing Ink

14.3. Transport hazard class(es)

ADR/RID : Class 3
IMDG : Class 3
ICAO-TI/IATA-DGR : Class 3

14.4. Packing group

ADR/RID : II
IMDG : II
ICAO-TI/IATA-DGR : II

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14.5. Environmental hazards

ADR/RID : No

IMDG : No

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 2: Water endangering

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes

Issue Date : 20.01.2025

Version : 4.0

Revision information : Change of SECTION 3.

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

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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

H225 : Highly flammable liquid and vapour.

H226 : Flammable liquid and vapour.

H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

H412 : Harmful to aquatic life with long lasting effects.

Training advice

General occupational hygiene training recommended.

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.