

Safety data sheet ink Cartridge P3-S-BK

according to 91/155/EWG

Oct-11

1. Product and company identification

Product details:

REINER Black Ink Cartridge: P3-S-BK

Manufacturer/Supplier

ERNST REINER GmbH & Co. KG
D-78115 Furtwangen - Postfach 1351
Tel. +49 (0) 7723 / 657-0 Fax +49 (0) 7723 / 657 200

Emergency information:

Tel.: +49 (0) 7723 / 657-258 (Monday to Friday from 8.30 to 16.00)
Fax.: +49 (0) 7723 / 657-200

2. Composition/information on ingredients



Name	%	CAS number	OSHA PEL	ACGIH TLV
Water Soluble Organic Solvent	5 - 10	Trade secret NJTSRN 80100451-5047	None	None
Water Soluble Organic Solvent	5 - 10	Trade secret NJTSRN 80100451-5045	None	None
Carbon black	1 - 5	1333-86-4	3 mg/m ³ 8 Hours TWA	3 mg/m ³ 8 Hours TWA
Hydroxylated alkane	0.5 - 1.5	Trade secret NJTSRN 80100451-5004		

3. Hazards identification

Hazard information	: Primary Routes of Exposure: Ingestion, skin contact.
Inhalation	: If ink mist is inhaled, respiratory tract irritation may occur. No known significant effects or critical hazards. Exposure not probable with intended use.
Skin contact	: Not an irritant. Not a dermal sensitizer. No known significant effects or critical hazards.
Eye contact	: Not an irritant. No known significant effects or critical hazards.
Ingestion	: Low acute oral toxicity. Chronic toxicological testing of the ink formulation has not been performed.

4. First aid measures

Inhalation	: If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.
Skin contact	: Wash with soap and water. Should irritation occur, seek medical attention.
Eye contact	: Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Aggravated conditions	: None known.
Notes to physician	: No specific antidote

Responsible FUE-KE	Technical reference TZ	Created by MR	Reviewed by TZ	Approved by TZ	Change number 10001	Document status Norm/QS
	ISO 1302	DIN 2768-mH	Document type SDB			Approved
 Feinmechanik und Apparatebau 78115 Furtwangen		Title -SDB REINER CARTRIDGE INK P3-S-BK GB CARTRIDGE P3-S-BK SINGLE-PACK				Document number DB-947100-000
						Rev. A

The reproduction, distribution and utilization of this document as well as the communication of its contents to other without explicit authorization is prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design.

5. Fire-fighting measures

Flash point	: Solid. Ink > 200°C.
Auto-ignition temperature	: Not applicable.
Flammable limits	: Not determined.
Extinguishing media	: Carbon dioxide, water spray or fog, dry chemical or foam.
Hazardous combustion products	: Carbon monoxide, carbon dioxide, unidentified organics
Special exposure hazards	: None known.
Special protective equipment for fire-fighters	: Fire fighters should wear full protective clothing, including self-contained breathing apparatus.
NFPA Rating	: Health: 1 Flammability: 1 Reactivity: 0
HMIS Classification	: Health: 1* Flammability: 1 Reactivity: 0

6. Accidental release measures

Personal precautions	: Wear latex, vinyl, or nitrile gloves to prevent staining of skin.
Environmental precautions	: Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways. Disposal is subject to national, state, regional, or provincial regulations
Methods for cleaning up	: Small spill : Absorb small spills with cloth or paper towels or other suitable material. Product waste and emptied containers should be disposed of in accordance with local waste regulations. Dispose material in accordance with all local, state, and federal regulations.

7. Handling and storage

Handling	: Keep from freezing. To avoid damage to cartridge and accidental contact with ink, keep out of reach of children.
Storage	: Store in a cool, dry place. Store away from oxidizing material.

8. Exposure controls / personal protection


Engineering measures	: Not required. Use in a well-ventilated area.
Respiratory	: None required for intended use in printer.
Gloves	: None required for intended use in printer.
Skin protection	: None required for intended use in printer.
Eyes	: None required for intended use in printer.

9. Physical and chemical properties

Physical state	: Liquid.
Color	: Black.
Odor	: Faint odor.
Solubility	: Miscible in water.

10. Stability and reactivity

Stability and reactivity	: The product is stable.
Conditions to avoid	: None known.
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, unidentified organics.
Hazardous polymerization	: Will not occur.
Additional guidelines	: None.

 Feinmechanik und Apparatebau 78115 Furtwangen	Title -SDB REINER CARTRIDGE INK P3-S-BK GB CARTRIDGE P3-S-BK SINGLE-PACK	Document number DB-947100-000		
		Re. A	Date of issue 25.11.2011	Sheet 2/4

11. Toxicological information

Primary routes of exposure	:	Inhalation of vapors, skin contact.
Ingestion	:	Low acute oral toxicity. Exposure not probable with intended use.
Acute toxicity oral rat LD50 (mg/kg)	:	>2000
Inhalation	:	Low acute inhalation toxicity. Pure carbon black, a minor component of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate. Ink is not listed by IARC, NTP, or OSHA.
Aggravating conditions	:	None known.
Potential chronic health effects	:	CARCINOGENIC EFFECTS: Classified + (Proven.) by NIOSH [Carbon Black]. Classified 2B (Possible for humans.) by IARC [Carbon Black]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Carbon Black]. MUTAGENIC EFFECTS: Not mutagenic in Ames test. TERATOGENIC EFFECTS: Not available.
Exposure limit values	:	See Section 3.

12. Ecological information

Mobility	:	Not available.
Other information	:	Decomposition products may include the following materials: carbon oxides (CO, CO ₂).

13. Disposal considerations

Waste disposal	:	This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.
-----------------------	---	---

14. Transport information

Not regulated by any transport mode.

REINER Feinmechanik und Apparatebau 78115 Furtwangen	Title -SDB REINER CARTRIDGE INK P3-S-BK GB CARTRIDGE P3-S-BK SINGLE-PACK	Document number DB-947100-000		
		Re. A	Date of issue 25.11.2011	Sheet 3/4

15. Regulatory information


United States TSCA (USA)	:	All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.
SARA / EPCRA (USA)	:	None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.
California Prop. 65	:	This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.
International regulations lists EINECS (Europe)	:	All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.
ENCS (Japan)	:	All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt
AICS (Australia)	:	All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.
Philippines inventory (PICCS)	:	All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.
Korea inventory (KECI)	:	All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.
China inventory (IECSC)	:	All ingredients are listed on the Chinese inventory (IECSC) or are exempt.
Canada WHMIS (Canada)	:	Not controlled under WHMIS (Canada).
DSL/NDSL	:	All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.
Mexico Classification	:	Health: 1 Flammability: 1 Reactivity: 0

16. Other information

Revision comments	:	No significant revisions to health and safety information.
References	:	ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.
Date of issue	:	11/15/2008
Version	:	1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

 Feinmechanik und Apparatebau 78115 Furthwangen	Title -SDB REINER CARTRIDGE INK P3-S-BK GB CARTRIDGE P3-S-BK SINGLE-PACK	Document number DB-947100-000		
		Re. A	Date of issue 25.11.2011	Sheet 4/4