

Product Number: C51-0001-02
Product Name: Ink, MEK Black

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

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

1.1 Product Identifier

Product Name: **Ink, MEK Black General Purpose**
Registration Number: **Not Relevant (Mixture)**
Product Code: **C51-0079-01**

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

Product Use: Printing ink for use in Printronix CIJ

1.3 Details of the supplier of the safety data sheet

Printronix
7700 Irvine Center Drive, Suite 700
Irvine, CA 92618, United States
(800) 665-6210

For further information, please contact Customer Service:
customerservice@printronix.com

1.4 Emergency telephone number

Emergency Contact: Local Poison Information Center
Chem Tel. Inc. Toll Free 800-255-3924
International 813-248-0585

Section 2: Hazards identification

2.1 Classification of the mixture in accordance with Article 40 of Regulation (EC) No 1272/2008 GHS Rating:

Flammable Liquid 2 - H225
Eye Irritant 2 - H319
Specific Target Organ Toxicity (Single Exposure) 3 - H336
Aquatic Chronic 3 - H412

2.2 Label elements

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



Signal word: **Danger**

Hazard statements:

- H225 Highly flammable liquid and vapor
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing vapor/ spray.
- P264 Wash contaminated skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTRE/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/ attention.
- P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/ container in accordance with national regulations.

Supplemental Hazard Information

Hazardous Ingredients for Labelling

- 2.3 Methyl Ethyl Ketone
- Other Hazards**
- N/A

Section 3: Composition/information on ingredients

3.1 Substances:

Not Relevant (Mixture)

3.2 Mixtures:

Name of Substance	Identifier	Concentration	GHS Classification
Methyl Ethyl Ketone	CAS No: 78-93-3 EC No: 201-159-0 Index No: 606-002-00-3 REACH Reg. No: 01-2119457290-43-xxxx	40.0-60.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
Ethanol	CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH Reg. No: 01-2119457610-43-xxxx	10.0-20.0%	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319
tert-ALKYL (C12- C14) AMMONIUMBis[1- [2- & [5-(1,1 & ...,	CAS No: 117527-94-3 EC No: 403-720-7 REACH Reg. No: 2120081123-67-XXXX	5.0-10.0%	Aquatic Chronic 2 - H411

Section 4: First Aid Measures

4.1 Description of first aid measures

General Notes:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Inhalation:	Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist the affected person by administering oxygen. Get medical attention if any discomfort continues.
Eyes:	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Skin:	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Remove contaminated clothing.
Ingestion:	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

4.2 Most Important symptoms and effects, both acute and delayed

General Information: If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

Inhalation: Unlikely route of exposure.

Ingestion: May be harmful if swallowed.

Skin Contact: May cause irritation.

Eye Contact: Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Do not use water, if avoidable.

5.2 Special hazards arising from the substance or mixture

The product is flammable. Heating may generate flammable vapor. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapor.

5.3 Advice for firefighters

Control run-off water by containing and keeping it out of sewers and watercourses.
 Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate

6.1.2 For emergency responders

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Collect and place in suitable waste disposal containers and seal securely. Label the

containers containing waste and contaminated materials and remove from the area as soon as possible.

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

6.3.2 Clean up and disposal of spill:

Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid spilling. Avoid contact with skin and eyes. Do not wear contact lenses. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and an emergency shower must be available when handling this product. During application and drying, solvent vapors will be emitted.

7.2 Conditions for safe storage, including any compatibilities

Store in tightly closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3 Specific end use(s)

Fluid delivery to Printronix C100 Series CIJ. Follow safety instructions outlined in 7.1 & 7.2 while handling. Observe warnings provided with Printronix C100 Series CIJ system when installing and handling fluids

Section 8: Exposure control/personal protection

8.1 Control parameters

CAS #	Chemical Name	Australia	Austria	Belgium
78-93-3	Methyl Ethyl Ketone	TWA 150ppm (445mg/m3) STEL 300ppm (890mg/m3)	TWA 100ppm (295mg/m3) STEL 200ppm (590mg/m3)	TWA 200ppm (600mg/m3) STEL 300ppm (900mg/m3)
64-17-5	Ethanol	TWA: 1000ppm (1880mg/m3)	TWA: 1000ppm (1900mg/m3) STEL: 2000ppm (3800mg/m3)	TWA: 1000ppm (1907mg/m3)
117527-94-3	tert-ALKYL(C12- C14) AMMONIUMBis [1-[2- & [5- (1,1 & ...,	-	-	-

CAS #	Chemical Name	Ontario, CA	Québec, CA	Denmark
78-93-3	Methyl Ethyl Ketone	TWA 200ppm STEL 300ppm	TWA 50ppm (150mg/m ³) STEL 100ppm (300mg/m ³)	TWA 50ppm (145mg/m ³) STEL 100ppm (290mg/m ³)
64-17-5	Ethanol	STEL: 1000ppm	TWA: 1000ppm (1880mg/m ³)	TWA: 1000ppm (1900mg/m ³) STEL: 2000ppm (3800mg/m ³)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	European Union	Finland	France
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m ³) STEL 300ppm (900mg/m ³)	TWA 20ppm (60mg/m ³) STEL 100ppm (300mg/m ³)	TWA 200ppm (600mg/m ³) STEL 300ppm (900mg/m ³)
64-17-5	Ethanol	-	TWA: 1000ppm (1900mg/m ³) STEL: 1300ppm (2500mg/m ³)	TWA: 1000ppm (1900mg/m ³) STEL: 5000ppm (9500mg/m ³)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	German AGS	Germany DFG	Hungary
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m ³) STEL 200ppm (600mg/m ³)	TWA 200ppm (600mg/m ³) STEL 200ppm (600mg/m ³)	TWA (600mg/m ³) STEL (900mg/m ³)
64-17-5	Ethanol	TWA: 200ppm (380mg/m ³) STEL: 800ppm (1520mg/m ³)	TWA: 200ppm (380mg/m ³) STEL: 800ppm (1520mg/m ³)	TWA 1900mg/m ³
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	Ireland	Italy	Latvia
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m ³) STEL 200ppm (600mg/m ³)	TWA 200ppm (600mg/m ³) STEL 200ppm (600mg/m ³)	TWA 67ppm (200mg/m ³) STEL 300ppm (900mg/m ³)
64-17-5	Ethanol	STEL: 1000ppm	-	TWA 1000mg/m ³
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1- [2- & [5-(1,1 & ...,	-	-	-

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CAS #	Chemical Name	New Zealand	PROC	Poland
78-93-3	Methyl Ethyl Ketone	TWA 150ppm (445mg/m3) STEL 300ppm (890mg/m3)	TWA (300mg/m3) STEL (600mg/m3)	TWA (450mg/m3) STEL (900mg/m3)
64-17-5	Ethanol	TWA: 1000ppm (1880mg/m3)		TWA: (1900mg/m3)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMbis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	Romania	Singapore	South Korea
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 300ppm (900mg/m3)	TWA 200ppm (590mg/m3) STEL 300ppm (885mg/m3)	TWA 200ppm (590mg/m3) STEL 300ppm (885mg/m3)
64-17-5	Ethanol	TWA: 1000ppm (1900mg/m3) STEL: 5000ppm (9500mg/m3)	TWA: 1000ppm (1880mg/m3)	TWA: 1000ppm (1900mg/m3)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMbis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	Spain	Sweden	Switzerland
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 500ppm (150mg/m3) STEL 300ppm (900mg/m3)	TWA 200ppm (590mg/m3) STEL 200ppm (590mg/m3)
64-17-5	Ethanol	STEL: 1000ppm (1910mg/m3)	TWA: 500ppm (1000mg/m3) STEL: 1000ppm (1900mg/m3)	TWA: 500ppm (960mg/m3) STEL: 1000ppm (1920mg/m3)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMbis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	The Netherlands	USA - NIOSH	United Kingdom
78-93-3	Methyl Ethyl Ketone	TWA (590mg/m3) STEL (900mg/m3)	TWA 200ppm (500mg/m3) STEL 300ppm (885mg/m3)	TWA 200ppm (600mg/m3) STEL 300ppm (899mg/m3)
64-17-5	Ethanol	TWA: (260mg/m3) STEL: (1900mg/m3)	TWA: 1000ppm (1900mg/m3)	TWA: 1000ppm (1920mg/m3)

117527-94-3	tert-ALKYL (C12- C14) AMMONIUMbis [1- [2- & [5-(1,1 & ...,	-	-	-
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CAS #	Chemical Name	OSHA PELs	ACGIH TLV	California, USA PELs
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (590mg/m3)	TWA 200ppm STEL 300ppm	TWA 200ppm (500mg/m3) STEL 300ppm (885mg/m3)
64-17-5	Ethanol	TWA 1000ppm (1900mg/m3)	STEL: 1000 ppm	PEL 1000ppm (1900mg/m3)
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMbis [1- [2- & [5-(1,1 & ...,	-	-	-

CAS #	Chemical Name	Mexico
78-93-3	Methyl Ethyl Ketone	PPT 200ppm CT 300ppm
64-17-5	Ethanol	CT 1000ppm
117527-94-3	tert-ALKYL(C12-C14) AMMONIUMbis[1-[2- & [5-(1,1 & ...,	-

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Use engineering controls to reduce air contamination to permissible exposure level.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/Face protection: Contact lenses should not be worn when working with this chemical. The following protection should be worn: Chemical splash goggles.

Skin protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Provide eyewash station and safety shower.

Respiratory protection:

Hygienic Practices: Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Black Liquid		
Odor:	Solvent	Odor threshold:	-
pH:	-	Melting point:	-
Boiling range:	79°C	Flash point:	-9°C
Evaporation rate:	-	Upper Explosive Limit:	-
		Lower Explosive Limit:	-
Flammability:	-	Vapor Pressure:	-
Vapor density:	-	Relative Density:	-
Solubility(ies):	-	Partition coefficient n-octanol/water:	-
Auto-ignition temperature:	-	Decomposition temperature:	-
Viscosity:	-		
Explosive properties:	-		
Oxidizing properties:	-		

9.2 Other information:

VOC:	-
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Section 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperatures and when used as recommended.

10.2 Chemical stability

No particular stability concern.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

10.4 Conditions to avoid:

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials:

No specific requirements are anticipated under normal conditions of use.

10.6 Hazardous decomposition products

Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity:

The toxicity of this product has not been tested.

Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation:

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Ingestion:

Gastrointestinal symptoms, including upset stomach.

Inhalation:

Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Vapors have a narcotic effect.

Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

Respiratory or skin sensitization:

Germ cell mutagenicity:

Carcinogenicity:

Reproductive toxicity:

STOT-single exposure:

STOT-repeated exposure:

Aspiration hazard

11.1.1 Hazard Class information:

11.1.2 Mixture toxicity:

11.1.3 Critical studies:

11.1.4 Non-compliance hazard class:

11.1.5 Information on likely routes of exposure:

11.1.6 Symptoms related to the physical, chemical and toxicological characteristics:

11.1.7 Delayed and immediate effects as well as chronic effects from short and long-term exposure:

11.1.8 Interactive effects:

11.1.9 Absence of specific data:

11.1.10 Mixtures:

11.1.11 Mixture vs Substance information:

11.1.12 Other information:

Section 12: Ecological information

- 12.1 Toxicity:** Harmful to aquatic life with long lasting effects.
- 12.2 Persistence and degradability:** Not determined
- 12.3 Bio accumulative potential:** Not determined
- 12.4 Mobility in soil:** The product is partly miscible with water and may spread in the aquatic environment.
- 12.5 Results of PBT and vPvB assessment:** Not determined
- 12.6 Other adverse effects:** Not determined

Section 13: Disposal considerations

13.1 Waste treatment methods:

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink
	Canadian TDG:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	European ADR/RID:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

	IMDG/IMO:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	ICAO/IATA:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
14.3	Transport hazard class(es):	3 - FLAMMABLE LIQUID
14.4	Packing group:	II
14.5	Environmental hazards:	N/A
14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	N/A

Section 15: Regulatory information

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

CAS #	Hazardous components	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl Ethyl Ketone	-	-	-
64-17-5	Ethanol	-	-	-
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1-[2- & [5-(1,1 & ...,	-	-	-

CAS #	Hazardous components	TSCA	REACH	CERCLA
78-93-3	Methyl Ethyl Ketone	Active	-	5000lbs
64-17-5	Ethanol	Active	-	-
117527-94-3	tert-ALKYL (C12- C14) AMMONIUMBis [1- [2- & [5-(1,1 & ...,	Active	-	-

15.2 Chemical safety assessment

Section 16: Other information

Revision Date: 09/01/24

Revision Notes: Rev A: Updated to EU 2020/878

Additional Information:

Product Number: C51-0001-02
Product Name: Ink, MEK Black

Date: 09/01/24
Revision: A

Company Disclaimer:

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