

Date: 09/01/2024

Product Number: C47-0056-01

Revision: A

Product Name: Cleaner, Nozzle Super

Based upon Regulation (EC) No 1907/2006, 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: **Cleaner, Nozzle Super**  
 Registration **Not Relevant (Mixture)**  
 Product Code: **C47-0056-01**

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

Product Use: Cleaner for use on external Printronix CIJ components.

### **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:**

Email: [customerservice@printronix.com](mailto: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 Liquids, Category 2: H225  
 Serious Eye Damage/Eye Irritation, Category 2:H319  
 Specific Target Organ Toxicity - Single exposure (narcotic effects, drowsiness), Category 3: H336

### **2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008



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**Signal word:** Danger

**Hazard statements:**

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**Precautionary statements:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P312 Call a poison center/doctor if you feel unwell.
- P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container to industrial combustion plant.

**2.3 Other hazards**

Of no significance

**Section 3: Composition/information on ingredients**

**3.1 Substances:**

**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	80.0-95.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
2-Amino-2-Methyl-1-Propanol	CAS No: 124-68-5 EC No: 204-709-8 Index No: 603-070-00-6	5.0-10.0%	Skin Irrit.2:H315 Eye Irrit.2:H319 Aquatic Chronic 3:H412

## **Section 4: First Aid Measures**

### **4.1 Description of first aid measures**

- General Notes** Do not leave the affected person unattended. Remove victim out of the danger area. Keep the affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
- Inhalation** If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.
- Eyes:** Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- Skin:** Wash with plenty of soap and water.
- Ingestion:** Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### **4.2 Most important symptoms and effects, both acute and delayed**

Narcotic effects.

### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to doctor:** Treat symptomatically and supportively.

## **Section 5: Fire Fighting Measures**

### **5.1 Extinguishing media**

For small fires, use Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>). Do NOT use water jet.

### **5.2 Special hazards arising from the substance or mixture**

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products  
Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

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**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

**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 breathing apparatus if exposed to vapors/dust/aerosols/gases.

**6.2 Environmental Precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up****6.3.1 For Containment:**

Covering of drains. Use of adsorbent materials.

**6.3.2 Clean up and disposal of spill:**

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal Binder. Place in appropriate containers for disposal. Ventilate affected area.

**Section 7: Handling and storage****7.1 Precautions for safe handling**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along

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floors and form explosive mixtures with air. Vapors may form explosive mixtures with air. Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

## 7.2 Conditions for safe storage, including any compatibilities

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Use local and general ventilation. Ground/bond container and receiving equipment. Only packaging which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

## 7.3 Specific end use(s)

Rinse, scrub, or soak compound to be used for cleaning pigment-stained components on the exterior of the Printronix CIJ. Not to be used on pump components.

## Section 8: Exposure control/personal protection

### 8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
78-93-3	Methyl Ethyl Ketone	TLV: 200 ppm STEL: 300 ppm	TWA: 295 mg/m3 (100 ppm) STEL: 590 mg/m3 (200 ppm)	TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm)

CAS #	Hazardous components	Belgium OEL	California, USA	Ontario, CA
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)	TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm)	TWA: 200 ppm STEL: 300 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone	TWA: 300 mg/m3 STEL: 600 mg/m3 (15 min)	TWA: 150 mg/m3 (50 ppm) STEL: 300 mg/m3 (100 ppm)	TWA: 600 mg/m3 (200 ppm) STEL: 600 mg/m3 (200 ppm) (15 min)

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL

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78-93-3	Methyl Ethyl Ketone	TWA: 295 mg/m3 (100 ppm) STEL: 600 mg/m3 (200 ppm) (30min) (4x)	TWA: 145 mg/m3 (50 ppm) STEL: 290 mg/m3 (100 ppm)	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)
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CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)	STEL: 300 mg/m3 (100 ppm) (15 min)	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)

CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3 STEL: 900 mg/m3	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) (15 min)	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm)	TWA: 200 mg/m3 (67 ppm) STEL: 900 mg/m3 (300 ppm) (15 min)	TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm)

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m3 (200 ppm)	TWA: 200 ppm STEL: 300 ppm	TWA: 590 mg/m3 STEL: 900 mg/m3

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm)	PEL: 200 ppm	TWA: 450 mg/m3 STEL: 900 mg/m3

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
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78-93-3	Methyl Ethyl Ketone	TWA: 150 mg/m3 (50 ppm) STEL: 300 mg/m3 (100 ppm) (15 min)	TWA: 590 mg/m3 (200 ppm) STEL: 885 mg/m3 (300 ppm)	TWA: 600 mg/m3 (200 ppm) STEL: 899 mg/m3 (300 ppm)
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CAS #	Hazardous components	Switzerland OEL	Japan OEL
78-93-3	Methyl Ethyl Ketone		

**8.2 Exposure controls:**

**8.2.1 Appropriate engineering controls:**

General ventilation

**2.2 Individual protection measures, such as personal protective equipment**

**Eye/Face protection:**

Wear eye/face protection.

**Skin protection:**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

**Hygienic Practices:**

Wash thoroughly after handling.

**Section 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Clear liquid		
<b>Odor:</b>	Pungent	<b>Odor threshold:</b>	No data available
<b>pH:</b>	No data available	<b>Melting point:</b>	-114.10 C - -87.00 C

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<b>Boiling range:</b>	163.8 °C at 760 mmHg	<b>Flash point:</b>	>-7.0 C
<b>Evaporation rate:</b>	No data available	<b>Upper Explosive Limit:</b>	No data available
		<b>Lower Explosive Limit:</b>	No data available
<b>Flammability:</b>	No data available	<b>Vapor Pressure:</b>	0.45 hPa at 20 °C
<b>Vapor density:</b>	No data available	<b>Relative Density:</b>	0.816 (H2O = 1 @ 20 °C)
<b>Solubility(ies):</b>	No data available	<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	438 C	<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available		No data available
<b>Explosive properties:</b>	99.99% Volatile by volume.		
<b>Oxidizing properties:</b>	No data available		

## 9.2 Other information:

<b>Miscibility:</b>	No data available	<b>VOC:</b>	6.81 lb/gal
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## Section 10: Stability and reactivity

### 10.1 Reactivity

Risk of ignition if heated.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials:

Oxidizers.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## Section 11: Toxicological information



**11.1 Information on Toxicological effects**

<b>Acute toxicity:</b>	Shall not be classified as acutely toxic.
<b>Skin corrosion/irritation:</b>	Shall not be classified as corrosive/irritant to skin.
<b>Serious eye damage/irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization:</b>	Shall not be classified as a respiratory or skin sensitizer.
<b>Germ cell mutagenicity:</b>	Shall not be classified as germ cell mutagenic.
<b>Carcinogenicity:</b>	Shall not be classified as carcinogenic.
<b>Reproductive toxicity:</b>	Shall not be classified as a reproductive toxicant.
<b>STOT-single exposure:</b>	May cause drowsiness or dizziness.
<b>STOT-repeated exposure:</b>	Shall not be classified as a specific target organ toxicant (repeated exposure).
<b>Aspiration hazard</b>	Shall not be classified as presenting an aspiration hazard.

**11.1.1 Hazard Class information:**

No data available

**11.1.2 Mixture toxicity:**

No data available

**11.1.3 Critical studies:**

No data available

**11.1.4 Non-compliance hazard class:**

No data available

**11.1.5 Information on likely routes of exposure:**

No data available

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

No data available

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

No data available

**11.1.8 Interactive effects:**

No data available

**11.1.9 Absence of specific data:**

No data available

**11.1.10 Mixtures:**

No data available



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**11.1.11 Mixture vs Substance information:**

No data available

**11.1.12 Other information:**

No data available

## **Section 12: Ecological information**

**12.1 Toxicity:**

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability:**

No data available

**12.3 Bio accumulative potential:**

No data available

**12.4 Mobility in soil:**

No data available

**12.5 Results of PBT and vPvB assessment:**

No data available

**12.6 Other adverse effects:**

No data available

## **Section 13: Disposal considerations**

**13.1 Waste treatment methods:**

Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series:



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CAS# 78-93-3: waste number U159 (Ignitable waste, Toxic waste).

## Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink Related Material
	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:

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists				
CAS #	Hazardous components	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)



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CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	Yes	No	Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	No	No	Yes- Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone	No	Yes – 1193	Yes

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Yes	Yes	Yes – 2-542

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	No	Yes – KE-24094	Yes

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Yes	No	No

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone	Yes – 150	Yes G-2429	No

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes – (R), (P)	No	No

CAS #	Hazardous components	Stockholm
78-93-3	Methyl Ethyl Ketone	No

## Section 16: Other information

### Company Disclaimer:

The information and recommendations contained herein are, to the best of Printronix knowledge and belief, accurate and reliable as of the date issued. Because many factors may affect processing or application/use, Printronix recommend that you make tests to determine the suitability of a product for your particular purpose



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prior to use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. In no case should the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Printronix hereunder are given gratis and Printronix assumes no obligation or liability for the description, designs, data and information given or results obtained. All such being given and accepted at your risk.