Safety Data Sheet
C51-0001-03 Ink MEK Black

According to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA 29CFR 1910.1200.
Version 1.0 • Date of issue: 09-01-2024

SECTION 1: Identification

1.1 GHS Product identifier

Product name	51-0001-03 Ink MEK Black
Product number	C51-0001-03
Brand	Printronix (REACH Registration number not relevant - mixture)

1.3 Recommended use of the chemical and restrictions on use

Uses advised against - Do not use for products which come in contact with foodstuffs. Do not use for private purposes (household)

1.4 Supplier's details

Name	Printronix
Address	7700 Irvine Center Drive, Suite 700 Irvine, CA 92618 USA
Telephone	(714) 368-2300
Email	customerservice@printronix.com

1.5 Emergency phone number

Chem Tel. Inc. Toll Free	800-255-3924
International	813-248-0585

SECTION 2: Hazard identification

General hazard statement

Hazardous ingredients for labelling:
Methyl Ethyl Ketone
Isopropyl alcohol
Acetone
Nitrocellulose
Diisobutyl ketone

2.1 Classification of the substance or mixture

- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3
- Flammable liquids, Cat. 2
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1

2.2 GHS label elements, including precautionary statements.

Pictograms

Signal word **Danger**

Hazard statement(s)

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash … thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection/protective gloves.
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 CENTER/doctor/.../ if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to …
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/…/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use … to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3 Other hazards which do not result in classification.
Results of PBT and vPvB assesments : Does not contain a PBT-/vPvB substance in a concentration of ≥0,1%.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. METHYL ETHYL KETONE

Concentration	43.5 - 69.5 % (weight)
EC no.	201-159-0
CAS no.	78-93-3
Index no.	606-002-00-3
REACH registration no. (EU)	01-2119457290-43-xxxx

- Flammable liquids, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3
- Eye damage/irritation, Cat. 2A

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

2. Ethanol

Concentration	14.295 - 28.59 % (weight)
EC no.	200-578-6
CAS no.	64-17-5
Index no.	603-002-00-5
REACH registration no. (EU)	01-2119457610-43

- Flammable liquids, Cat. 2

H225	Highly flammable liquid and vapor

3. Isopropanol alcohol

Concentration	1.33 - 4.035 % (weight)
EC no.	200-661-7
CAS no.	67-63-0
Index no.	603-117-00-0
REACH registration no. (EU)	01-2119457558-25

- Flammable liquids, Cat. 2
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3
- Specific target organ toxicity (repeated exposure), Cat. 2

- Eye damage/irritation, Cat. 1
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1

H225	Highly flammable liquid and vapor
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

4. Acetone

Concentration	1 - 5 % (weight)
EC no.	200-662-2
CAS no.	67-64-1
Index no.	606-001-00-8
REACH registration no. (EU)	01-2119471330-49

- Flammable liquids, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3
- Eye damage/irritation, Cat. 2A

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

5. Nitrocellulose

Concentration	1.625 - 5.625 % (weight)
CAS no.	9004-70-0

H201	Explosive; mass explosion hazard

6. BUTYLATED HYDROXYTOLUENE

Concentration	0.1 - 1 % (weight)
EC no.	204-881-4
CAS no.	128-37-0
REACH registration no. (EU)	01-2119480433-40

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

7. DIISOBUTYL KETONE

Concentration	0.06 - 1 % (weight)
EC no.	203-620-1
CAS no.	108-83-8
Index no.	606-005-00-X
REACH registration no. (EU)	01-2119474441-41

- Flammable liquids, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 3

H226	Flammable liquid and vapor
H335	May cause respiratory irritation.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Do not leave the affected person unattended. remove the 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.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice. Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed.
Narcotic effects

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Water spray, BC-powder, Carbon dioxide (C02)
Unsuitable extinguishing media - water jet

5.2 Specific hazards arising from the chemical
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 (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)
Ethanol: Carbon oxides

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

In case of fire and/or explosion do not breathe fumes. Coordinate 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
Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up.
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

Only packaging which is approved (e.g., acc. to the Dangerous Goods Regulations) may be used.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substance	Butan-2-one			
CAS No.	78-93-3			
Remarks	Methyl Ethyl Ketone (MEK)			
	Limit value - Eight hours		Limit value - short term	
	ppm	mg/m³	ppm	mg/m³
Australia	150	445	300	890
Austria	100	295	200	590
Belgium	200	600	300 (1)	900 (1)
Canada - Ontario	200		300	
Canada - Québec	50	150	100 (1)	300 (1)
Denmark	50 (1)	145 (1)	100 (1)(2)	290 (1)(2)
European Union	**200**	**600**	**300 (1)**	**900 (1)**
Finland	20	60	100 (1)	300 (1)
France	**200**	**600**	**300 (1)**	**900 (1)**
Germany (AGS)	200 (1)	600 (1)	200 (1)(2)	600 (1)(2)
Germany (DFG)	200 (1)	600 (1)	200 (1)(2)	600 (1)(2)
Hungary		600 (1)		900 (1)(2)
Ireland	200	600	300 (1)	900 (1)
Israel	200	590		
Italy	200	600	300 (1)	900 (1)
Japan (MHLW)	200			
Japan (JSOH)	200	590		
Latvia	67	200	300 (1)	900 (1)
New Zealand	150	445	300	890
Norway	75	220		
People's Republic of China		300		600 (1)
Poland		450 (1)		900 (1)(2)
Romania	200	600	300 (1)	900 (1)

Singapore	200	590	300	885
South Africa	400 (1)		600 (1)(2)	
South Africa Mining	200 (1)	600 (1)	300 (1)(2)	900 (1)(2)
South Korea	200		300 (1)	
Spain	200	600	300	900
Sweden	50	150	300 (1)	900 (1)
Switzerland	200	590	200	590
The Netherlands	197 (1)	590 (1)	300 (1)(2)	900 (1)(2)
Turkey	200	600	300 (1)	900 (1)
USA - NIOSH	200	590	300 (1)	885 (1)
USA - OSHA	200	590		
United Kingdom	200 (1)	600 (1)	300 (1)(2)	899 (1)(2)

	Remarks
Belgium	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
Denmark	(1) Skin (2) 15 minutes average value
European Union	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV)
Finland	(1) 15 minutes average value
France	Bold type: Restrictive statutory limit values Skin (1) 15 minutes average value
Germany (AGS)	(1) Skin (2)15 minutes average value
Germany (DFG)	(1) Skin (2) 15 minutes average value
Hungary	(1) Skin (2) 15 minutes average value
Ireland	(1) 15 minutes reference period
Italy	(1) 15 minutes average value
Latvia	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) Skin (2) 15 minutes average value
Romania	(1) 15 minutes average value
South Africa	(1) Skin (2) 15 minutes average value
South Africa Mining	(1) Skin (2) 15 minutes average value
South Korea	(1) 15 minutes average value
Sweden	(1) 15 minutes average value
The Netherlands	(1) Skin (2) 15 minutes average value
Turkey	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value
United Kingdom	(1) Skin (2) 15 minutes average value

Substance	Ethanol
CAS No.	64-17-5

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia	1000	1880		
Austria	1000	1900	2000	3800
Belgium	1000	1907		
Canada - Ontario			1000	
Canada - Québec			1000 (1)	
Denmark	1000	1900	2000	3800
Finland	1000	1900	1300 (1)	2500 (1)
France	1000	1900	5000	9500
Germany (AGS)	200	380	800 (1)	1520 (1)
Germany (DFG)	200	380	800 (1)	1520 (1)
Hungary		1900		3800 (1)
Ireland			1000 (1)	
Latvia		1000		
New Zealand	1000	1880		
Norway	500	950		
Poland		1900		
Romania	1000	1900	5000 (1)	9500 (1)
Singapore	1000	1880		
South Africa			2000 (1)	
South Africa Mining	1000	1900		
South Korea	1000			
Spain			1000	1910
Sweden	500	1000	1000 (1)	1900 (1)
Switzerland	500	960	1000	1920
The Netherlands		260 (1)		1900 (1)(2)
USA - NIOSH	1000	1900		
USA - OSHA	1000	1900		
United Kingdom	1000	1920		

	Remarks

Canada - Québec	(1) 15 minutes average value
Finland	(1) 15 minutes average value
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
Hungary	(1) 15 minutes average value
Ireland	(1) 15 minutes reference period
Romania	(1) 15 minutes average value
South Africa	(1) Ceiling limit value
Sweden	(1) 15 minutes average value
The Netherlands	(1) Skin (2) 15 minutes average value

Substance	Propan-2-ol
CAS No.	67-63-0

	Limit value - Eight hours		Limit value - short term	
	ppm	mg/m³	ppm	mg/m³
Australia	400	983	500	1230
Austria	200	500	800	2000
Belgium	200	500	400 (1)	1000 (1)
Canada - Ontario	200		400	
Canada - Québec	200		400 (1)	
Denmark	200	490	400	980
Finland	200	500	250 (1)	620 (1)
France			400	980
Germany (AGS)	200	500	400 (1)	1000 (1)
Germany (DFG)	200	500	400 (1)	1000 (1)
Hungary		500 (1)		1000 (1)(2)
Ireland	200		400 (1)	
Japan (MHLW)	200			
Japan (JSOH)	400 (1)	980 (1)		
Latvia		350		600 (1)
New Zealand	400	983	500	1230
Norway	100	245		
People's Republic of China		350		700 (1)
Poland		900 (1)		1200 (1)(2)
Romania	81	200	203 (1)	500 (1)

Singapore	400	983	500	1230
South Africa	400		800 (1)	
South Africa Mining	400	980	500 (1)	1225 (1)
South Korea	200		400 (1)	
Spain	200	500	400	1000
Sweden	150	350	250 (1)	600 (1)
Switzerland	200	500	400	1000
USA - NIOSH	400	980	500 (1)	1225 (1)
USA - OSHA	400	980		
United Kingdom	400	999	500 (1)	1250 (1)

	Remarks
Belgium	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
Finland	(1) 15 minutes average value
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
Hungary	(1) Skin (2) 15 minutes average value
Ireland	(1) 15 minutes reference period
Japan (JSOH)	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
Latvia	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) Skin (2) 15 minutes average value
Romania	(1) 15 minutes average value
South Africa	(1) 15 minutes average value
South Africa Mining	(1) 15 minutes average value
South Korea	(1) 15 minutes average value
Sweden	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value
United Kingdom	(1) 15 minutes average value

Substance	Acetone
CAS No.	67-64-1

	Limit value - Eight hours	Limit value - short term

	ppm	mg/m³	ppm	mg/m³
Australia	500	1185	1000	2375
Austria	500	1200	2000	4800
Belgium	246	594	492 (1)	1187 (1)
Canada - Ontario	250		500 (1)	
Canada - Québec	250		500 (1)	
Denmark	250	600	500	1200
European Union	**500**	**1210**		
Finland	500	1200	630 (1)	1500 (1)
France	**500**	**1210**	**1000**	**2420**
Germany (AGS)	500	1200	1000 (1)	2400 (1)
Germany (DFG)	500	1200	1000 (1)	2400 (1)
Hungary		1210		
Ireland	500	1210		
Italy	500	1210		
Japan (MHLW)	500			
Japan (JSOH)	200	470		
Latvia	500	1210		
New Zealand	500	1185	1000	2375
Norway	125	295		
People's Republic of China		300		450 (1)
Poland		600		1800 (1)
Romania	500	1210		
Singapore	750	1780	1000	2380
South Africa	500		1000 (1)	
South Africa Mining	500	1185	1000 (1)	2375 (1)
South Korea	500		750 (1)	
Spain	500	1210		
Sweden	250	600	500 (1)	1200 (1)
Switzerland	500	1200	1000	2400
The Netherlands	500	1210	1000 (1)	2420 (1)
Turkey	500	1210		
USA - NIOSH	250	590		
USA - OSHA	1000	2400		
United Kingdom	500	1210	1500 (1)	3620 (1)

	Remarks

Belgium	(1) 15 minutes average value
Canada - Ontario	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
European Union	Bold type: Indicative Occupational Exposure Limit Value (IOELV)
Finland	(1) 15 minutes average value
France	Bold type: Restrictive statutory limit values
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) 15 minutes average value
South Africa	(1) 15 minutes average value
South Africa Mining	(1) 15 minutes average value
South Korea	(1) 15 minutes average
Sweden	(1) 15 minutes average value
The Netherlands	(1) 15 minutes average value
United Kingdom	(1) 15 minutes average value

Substance	2,6-Di-tert-butyl-p-cresol
CAS No.	128-37-0

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia		10		
Austria		10		
Belgium		2 (1)		
Canada - Ontario		2 (1)		
Canada - Québec		2 (1)		
Denmark		10		20
Finland		10		20 (1)
France		10		
Germany (AGS)		10 (1)		40 (1)(2)
Germany (DFG)		10 (1)		40 (1)(2)
Ireland		2		
New Zealand		10		
Singapore		10		
South Africa Mining		10		

South Korea		2 (1)
Spain		10
Switzerland		10 inhalable aerosols
USA - NIOSH		10
United Kingdom		10

	Remarks
Belgium	(1) Inhalable fraction and vapor
Canada - Ontario	(1) Inhalable aerosol and vapor
Canada - Québec	(1) Inhalable fraction and vapor
Finland	(1) 15 minutes average value
Germany (AGS)	(1) Inhalable aerosol and vapor (2) 15 minutes reference period
Germany (DFG)	(1) Inhalable fraction and vapor (2) 15 minutes average value
South Korea	(1) Inhalable fraction

Substance	2,6-Dimethylheptan-4-one
CAS No.	108-83-8

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia	25	145		
Austria	50	290		
Belgium	25	147		
Canada - Ontario	25			
Canada - Québec	25	145		
Denmark	25	150	50	300
Finland	25	150	40 (1)	240 (1)
France	25	250		
Ireland	25	150		
New Zealand	25	145		
Norway	20	120		
People's Republic of China		145		
Poland		150		300 (1)
Romania	26	150	43 (1)	250 (1)
Singapore	25	145		
South Africa	50			

South Africa Mining	25	150
South Korea	25	
Spain	25	148
Switzerland	25	150
USA - NIOSH	25	150
USA - OSHA	50	290
United Kingdom	25	148

	Remarks
Finland	(1) 15 minutes average value
Poland	(1) 15 minutes average value
Romania	(1) 15 minutes average value

8.2 Exposure Controls.
8.2.1 Engineering Controls (Ventilation etc.)

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Personal protection equipment.

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact.
Material: Nitrile rubber, Minimum layer thickness: 0.4 mm, Break through time: 480 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Splash contact:
Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 292 min. Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and number of dangerous substances at the specific workplace.

Respiratory Equipment Where risk assessment shows air-purifying respirators are appropriate use full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.2.3 Environmental Exposure Controls.
Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	
Odor	Pungent
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	-94.00 – 137.00C
Initial boiling point and boiling range	56.00 C – 265.00 C
Flash point	>-17.00C
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	7 hPa at 30°C
Vapor density	No data available.
Relative density	0.8844 G/ML 7.38 lb/gal
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	>345.00 °C
Decomposition temperature	
Viscosity	No data available.

Additional properties

Physical state	Liquid
Color	Black
Explosive properties	None
Oxidizing properties	None

Supplemental information regarding physical hazard classes

Percent Volatile	>70.0%

SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "conditions to avoid" and "incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability
See below "conditions to avoid."

10.3 Possibility of hazardous reactions
None under normal use conditions.

10.4 Conditions to avoid.
Avoid storing in direct sunlight and avoid extremes of temperature.
Heat, flames, and sparks.

10.5 Incompatible materials
Oxidizers

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Isopropanol: Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids

Acetone: Bases, oxidizing agents, reducing agents, Acetone reacts violently with phosphorous oxychloride.

10.6 Hazardous decomposition products
Other decomposition products - No data available in the event of fire: see section 5.

Isopropanol: Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Test data not available for complete mixture

Shall not be classified as acutely toxic.
GHS of the United Nations, annex 4: May be harmful if swallowed.

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity
Shall not be classified as germ cell mutagenic.

Carcinogenicity
Shall not be classified as carcinogenic.

Reproductive toxicity
Shall not be classified as a reproductive toxicant.

Specific target organ toxicity (STOT) - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Additional information
Repeated exposure may cause skin dryness or cracking.

Ethanol: Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

Toxicity
No data available.

Persistence and degradability
No data available. Biodegradability result: 91% readily biodegradable.

Bio accumulative potential
No data available on product

Mobility in soil
No data available

Results of PBT and vPvB assessment
Results of PBT and vPvB assessments: Does not contain a PBT-/vPvB substance in a concentration of ≥0,1%.

Other adverse effects
No data available

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Solvent reclamation/regeneration.

Packaging disposal
Dispose of unused products.

Waste treatment
It is a dangerous waste; only packaging which is approved (e.g., acc. to ADR) may be used. Completely emptied packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Sewage disposal
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Other disposal recommendations
Please consider the relevant national or regional provisions. Waste shall be separated into categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

49 CFR US DOT
UN Number: 1210
Class: 3
Packing Group: II
Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
Marine pollutant: -
Reportable quantity (RQ) - 6,196 lbs (2,813 kg) (Methyl Ethyl Ketone)

IMDG
UN Number: 1210
Class: 3
Packing Group: II
EMS Number: F-E,S-D
Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

IATA
UN Number: 1210
Class: 3
Packing Group: II
Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations specific for the product in question

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64-17-5	Ethyl alcohol	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes
67-64-1	Acetone	No	Yes NA	No
78-93-3	Methyl ethyl ketone	No	Yes NA	No
9004-70-0	Nitrocellulose	No	No	No
128-37-0	Butylated hydroxytoluene	No	No	No
108-83-8	Diisobutyl ketone	No	No	No

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
64-17-5	Ethyl alcohol	Yes: Part 5		Yes
67-63-0	Isopropyl alcohol	Yes: Part 5		Yes
67-64-1	Acetone	No	No	Yes
78-93-3	Methyl ethyl ketone	Yes: Part 5	No	Yes
9004-70-0	Nitrocellulose	No	No	Yes
128-37-0	Butylated hydroxytoluene	Yes: Part 1A	No	Yes

108-83-8	Diisobutyl ketone	No	No	Yes

California Proposition 65

WARNING This product can expose you to chemicals including Benzene, (1-methylethyl)-, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64-17-5	Ethyl alcohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
67-63-0	Isopropyl alcohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
67-64-1	Acetone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
78-93-3	Methyl ethyl ketone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
9004-70-0	Nitrocellulose	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
128-37-0	Butylated hydroxytoluene	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
108-83-8	Diisobutyl ketone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

78-93-3 Methyl ethyl ketone Mexico INSQ: Yes – 1193; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 2-542; Japan ISHL: No; Korea ECL: Yes – KE-24094; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes – 150: WGK 1; Switzerland Giftliste 1: Yes – G-2429; Switzerland INNS: No; REACH: Yes – 01-2119457290-43: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

64-17-5 Ethyl alcohol Mexico INSQ:Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 5-153; Japan ISHL: No; Korea ECL: Yes – KE-13217; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat; Germany WHCS: Yes – 96: WGK 1; Switzerland Giftliste 1: Yes – G-1158; Switzerland INNS: No; REACH: Yes – 01-2119457610-43: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

67-63-0 Isopropyl alcohol Mexico INSQ:Yes - 1219; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 2-207; Japan ISHL: Yes – 2 –(8)-319; Korea ECL: Yes – KE-29363; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat; Germany WHCS: Yes – 135: WGK 1; Switzerland Giftliste 1: Yes – G-1712; Switzerland INNS: No; REACH: Yes – 01-2119457558-25: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

67-64-1 Acetone M e x i c o INSQ:Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 2-542; Japan ISHL: No; Korea ECL: Yes – KE-29367; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No - Cat; Germany WHCS: Yes – 6: WGK 1; Switzerland Giftliste 1: Yes – G-1031; Switzerland INNS: No; REACH: Yes – 01-2119471330-49: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

9004-70-0 Nitrocellulose Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 8-176; Japan ISHL: No; Korea ECL: Yes – KE-25980; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No - Cat; Germany WHCS: No: WGK 1; Switzerland Giftliste 1: Yes – G-8365; Switzerland INNS: No; REACH: Yes – (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

128-37-0 Butylated hydroxytoluene Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes – 9-884; Japan ISHL: No; Korea ECL: Yes – KE-03079; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: Yes-29309000; Israel HSL: No - Cat; Germany WHCS: Yes – 724: WGK 1; Switzerland Giftliste 1: Yes – G-2202; Switzerland INNS: No; REACH: Yes – 01-2119565113-46: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

108-83-8 Diisobutyl ketone Mexico INSQ:Yes-1157; Australia ICS: Yes; New Zealand IOC: Yes-HSR001130; China IECSC: Yes; Japan ENCS: Yes – 2-2475; Japan ISHL: Yes-2-(8)-16; Korea ECL: Yes – KE-10907; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No - Cat; Germany WHCS: Yes – 591: WGK 1; Switzerland Giftliste 1: Yes – G-1546; Switzerland INNS: No; REACH: Yes – 01-2119474441-41: Full, (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their purposes. In no event shall Printronix be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Printronix has been advised of the possibility of such damages.