

Date: 09/01/2024
Revision: A

Product Number: C51-0001-01
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**
Registration **Not Relevant (Mixture)**
Number:
Product Code: **C51-0001-01**

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:

Email: 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, Category 2
Eye corrosive, Category 2
Specific Target Organ Toxicity, Single Exposure –Narcotic Effects, Category 3

2.2 Label elements

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



Signal word: **Danger**

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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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P312 Call a POISON CENTRE/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.

Supplemental Hazard Information

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous Ingredients for Labelling

Methyl Ethyl Ketone, Isopropyl Alcohol

2.3 Other Hazards

Of no significance.

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	50.0-75.0%	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	5.0-10.0%	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319
Isopropyl alcohol	CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0 REACH Reg. No: 01-2119457558-25-xxxx	1.0-5.0%	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336

Section 4: First Aid Measures

4.1 Description of first aid measures

General Notes	Do not leave affected person unattended. Remove victim out of the danger area. Keep 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

None

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

DO NOT USE: Direct, solid stream of water or foam.

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

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areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products
Carbon monoxide (CO), Carbon dioxide (CO₂)

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

Remove persons to safety.

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. Place in appropriate containers for disposal. Ventilate affected area.

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. Use adsorbent materials.

6.4 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****Recommendations:****Measures to prevent fire as well as aerosol and dust generation:**

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.

Specific notes/details:

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 floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene:

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**Managing of associated risks:****Explosive atmospheres:**

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

Flammability hazards

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.

Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities

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

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
64-17-5	Ethanol	TWA: 1000ppm (1880mg/m3)	TWA: 1000ppm (1900mg/m3) STEL: 2000ppm (3800mg/m3)	TWA: 1000ppm (1907mg/m3)
67-63-0	Isopropyl alcohol	TWA 400ppm (983mg/m3) STEL: 500ppm (1230mg/m3)	TWA 200ppm (500mg/m3) STEL: 800ppm (2000mg/m3)	TWA 200ppm (500mg/m3) STEL: 400ppm (1000mg/m3)
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)

CAS #	Chemical Name	Ontario, CA	Québec, CA	Denmark
64-17-5	Ethanol	STEL: 1000ppm	TWA: 1000ppm (1880mg/m3)	TWA: 1000ppm (1900mg/m3) STEL: 2000ppm (3800mg/m3)
67-63-0	Isopropyl alcohol	TWA 200ppm STEL: 400ppm	TWA 400ppm (983mg/m3) STEL: 500ppm (1230mg/m3)	TWA 200ppm (490mg/m3) STEL: 400ppm (980mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm STEL 300ppm	TWA 50ppm (150mg/m3) STEL 100ppm (300mg/m3)	TWA 50ppm (145mg/m3) STEL 100ppm (290mg/m3)

CAS #	Chemical Name	European Union	Finland	France
64-17-5	Ethanol	-	TWA: 1000ppm (1900mg/m3) STEL: 1300ppm (2500mg/m3)	TWA: 1000ppm (1900mg/m3) STEL: 5000ppm (9500mg/m3)
67-63-0	Isopropyl alcohol	-	TWA 200ppm (500mg/m3) STEL: 250ppm (620mg/m3)	STEL: 400ppm (980mg/m3)

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78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 300ppm (900mg/m3)	TWA 20ppm (60mg/m3) STEL 100ppm (300mg/m3)	TWA 200ppm (600mg/m3) STEL 300ppm (900mg/m3)
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CAS #	Chemical Name	German AGS	Germany DFG	Hungary
64-17-5	Ethanol	TWA: 200ppm (380mg/m3) STEL: 800ppm (1520mg/m3)	TWA: 200ppm (380mg/m3) STEL: 800ppm (1520mg/m3)	TWA 1900mg/m3
67-63-0	Isopropyl alcohol	TWA 200ppm (500mg/m3) STEL: 400ppm (1000mg/m3)	TWA 200ppm (500mg/m3) STEL: 400ppm (1000mg/m3)	TWA (500mg/m3) STEL: (2000mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA (600mg/m3) STEL (900mg/m3)

CAS #	Chemical Name	Ireland	Italy	Latvia
64-17-5	Ethanol	STEL: 1000ppm	-	TWA 1000mg/m3
67-63-0	Isopropyl alcohol	TWA 200ppm STEL: 400ppm)	-	TWA (350mg/m3) STEL: (600mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 67ppm (200mg/m3) STEL 300ppm (900mg/m3)

CAS #	Chemical Name	New Zealand	PROC	Poland
64-17-5	Ethanol	TWA: 1000ppm (1880mg/m3)		TWA: (1900mg/m3)
67-63-0	Isopropyl alcohol	TWA 400ppm (983mg/m3) STEL: 500ppm (1230mg/m3)	TWA (350mg/m3) STEL: (700mg/m3)	TWA (900mg/m3) STEL: (1200mg/m3)

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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)
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CAS #	Chemical Name	Romania	Singapore	South Korea
64-17-5	Ethanol	TWA: 1000ppm (1900mg/m3) STEL: 5000ppm (9500mg/m3)	TWA: 1000ppm (1880mg/m3)	TWA: 1000ppm (1900mg/m3)
67-63-0	Isopropyl alcohol	TWA 81ppm (200mg/m3) STEL: 203ppm (500mg/m3)	TWA 400ppm (983mg/m3) STEL: 500ppm (1230mg/m3)	TWA 200ppm (480mg/m3) STEL: 400ppm (980mg/m3)
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)

CAS #	Chemical Name	Spain	Sweden	Switzerland
64-17-5	Ethanol	STEL: 1000ppm (1910mg/m3)	TWA: 500ppm (1000mg/m3) STEL: 1000ppm (1900mg/m3)	TWA: 500ppm (960mg/m3) STEL: 1000ppm (1920mg/m3)
67-63-0	Isopropyl alcohol	TWA 200ppm (500mg/m3) STEL: 400ppm (1000mg/m3)	TWA 150ppm (350mg/m3) STEL: 250ppm (600mg/m3)	TWA 200ppm (500mg/m3) STEL: 400ppm (1000mg/m3)
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)

CAS #	Chemical Name	The Netherlands	USA - NIOSH	United Kingdom
64-17-5	Ethanol	TWA: (260mg/m3) STEL: (1900mg/m3)	TWA: 1000ppm (1900mg/m3)	TWA: 1000ppm (1920mg/m3)
67-63-0	Isopropyl alcohol	-	TWA 400ppm (980mg/m3) STEL: 500ppm (1225mg/m3)	TWA 400ppm (999mg/m3) STEL: 500ppm (1250mg/m3)

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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)
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CAS #	Chemical Name	OSHA PELs	ACGIH TLV	California, USA PELs
64-17-5	Ethanol	TWA 1000ppm (1900mg/m3)	STEL: 1000 ppm	PEL 1000ppm (1900mg/m3)
67-63-0	Isopropyl alcohol	TWA 400ppm (980mg/m3)	TWA 200ppm STEL: 400ppm	TWA 400ppm (980mg/m3) STEL: 500ppm (1225mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (590mg/m3)	TWA 200ppm STEL 300ppm	TWA 200ppm (500mg/m3) STEL 300ppm (885mg/m3)

CAS #	Chemical Name	Mexico
64-17-5	Ethanol	CT 1000ppm
67-63-0	Isopropyl alcohol	PPT 200ppm CT 400ppm
78-93-3	Methyl Ethyl Ketone	PPT 200ppm CT 300ppm

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

General ventilation.

8.2.2 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. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Hygienic Practices:

DO NOT SMOKE IN WORK AREA! Promptly remove contaminated clothing. Wash immediately if skin becomes contaminated. Do not eat or drink in work area while using this product. Wash thoroughly at the end of the workday, before eating and using the restroom.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Black Liquid		
Odor:	Pungent	Odor threshold:	-
pH:	-	Melting point:	-
Boiling range:	79 °C at 1,013 hPa	Flash point:	-8C, 17.6F
Evaporation rate:	-	Upper Explosive Limit:	13.5%
		Lower Explosive Limit:	2.5%
Flammability:	Highly flammable liquid and vapor	Vapor Pressure:	169.3 hPa at 25 °C
Vapor density:	-	Relative Density:	0.893
Solubility(ies):	-	Partition coefficient n-octanol/water:	-
Auto-ignition temperature:	455°C	Decomposition temperature:	-
Viscosity:	-		
Explosive properties:	-		
Oxidizing properties:	-		

9.2 Other information:

Miscibility:	-	VOC:	6.18 lb/gal
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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.

If heated:
Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials:

Oxidizers

10.6 Hazardous decomposition products

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

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity:	Shall not be classified as acutely toxic. GHS of the United Nations, annex 4: May be harmful if swallowed.
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.
STOT-single exposure:	May cause drowsiness or dizziness.
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.

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:

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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: Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability: Not determined

12.3 Bio accumulative potential: Not determined

12.4 Mobility in soil: Not determined

12.5 Results of PBT and vPvB assessment: Not determined

12.6 Other adverse effects: Not determined

None of the ingredients are listed.

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Section 13: Disposal considerations

13.1 Waste treatment methods:

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

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

Waste treatment of containers/packages

Only packaging which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

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

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:	non-environmentally hazardous acc. to the dangerous goods regulations
14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
		The cargo is not intended to be carried in bulk.



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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)
64-17-5	Ethanol	-	-	-
67-63-0	Isopropyl alcohol	-	-	313
78-93-3	Methyl Ethyl Ketone	-	-	-

CAS #	Hazardous components	TSCA	REACH	CERCLA
64-17-5	Ethanol	Active	-	-
67-63-0	Isopropyl alcohol	Active	-	-
78-93-3	Methyl Ethyl Ketone	Active	-	5000lbs

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

None

Section 16: Other information

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Additional 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 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 shall 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, date 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.