



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 8/Jun/2017

Version: 2

Language: en-CA,US

Date of print: 29/Jun/2017

## Electro Contact Cleaner Liquid

Material number 152120

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### 1. Product and company identification

#### Product identifier

Trade name: Electro Contact Cleaner Liquid

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

General use: Cleaning agent

#### Details of the supplier of the safety data sheet

Company name: WEICON Inc.

Street/POB-No.: 20 Steckle Place, Unit 20

Postal Code, city: Kitchener, Ontario N2E 2C3, CA

WWW: [www.weicon.ca](http://www.weicon.ca)

E-mail: [info@weicon.ca](mailto:info@weicon.ca)

Telephone: +1-519-896-5252

Telefax: +1-519-896-5254

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: [msds@weicon.de](mailto:msds@weicon.de)

#### Emergency phone number

**EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Color: colorless

Odor: characteristic

Classification: Flammable Liquid 1; Skin Irritation 2;  
Specific Target Organ Toxicity (Single Exposure) 3; Aspiration Toxicity 1;  
Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

**Danger**

Hazard statements: Extremely flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN: Wash with plenty of water/soap.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.  
Specific treatment (see ' First aid ' on this label).  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing.  
In case of fire: Use Water fog, alcohol resistant foam, Extinguishing powder, carbon dioxide to extinguish.  
Collect spillage.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may lead to a narcotic effect.  
Special danger of slipping by leaking/spilling product.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions.



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Naphtha (petroleum), hydrotreated light	50 - 75 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 109-66-0	n-Pentane	10 - 25 %	Flammable Liquid 1. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64-17-5	Ethanol	2.5 - 10 %	Flammable Liquid 2. Eye Irritation 2A.
CAS 67-63-0	Isopropyl alcohol	< 1 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.

Additional information: Contains > 30 % aliphatic hydrocarbons.

### 4. First aid measures

General information:	IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention.
Following skin contact:	Wash with generous amount of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing before reuse. Consult a doctor if skin irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Do not induce vomiting. Danger of aspiration! Immediately get medical attention.

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

May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.

#### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

Flash point/flash point range:	-35 °C
Auto-ignition temperature:	not self-igniting
Suitable extinguishing media:	Water fog, Alcohol resistant foam, extinguishing powder, carbon dioxide.
Extinguishing media which must not be used for safety reasons:	Full water jet



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### Specific hazards arising from the chemical

Extremely flammable liquid and vapor.

Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapor may travel great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## 6. Accidental release measures

Personal precautions:

Eliminate all ignition sources if safe to do so.

Provide adequate ventilation. Do not breathe vapors.

Wear appropriate protective equipment. Avoid contact with the substance. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal)

## 7. Handling and storage

### Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapors.

Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Use only explosion-protected equipment/instruments. Do not weld.

In partially filled containers explosive mixtures may form.



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### Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight.  
Store containers in upright position. Explosion protection required. Storage temperature: 5 °C up to 25 °C.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.  
Avoid contact with nitric acid, strong oxidizing agents and halogens.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
109-66-0	n-Pentane	Canada, Québec: VEMP NIOSH: Ceiling USA: NIOSH: TWA	350 mg/m <sup>3</sup> ; 120 ppm 1800 mg/m <sup>3</sup> ; 610 ppm 350 mg/m <sup>3</sup> ; 120 ppm
64-17-5	Ethanol	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, Québec: VEMP USA: ACGIH: STEL USA: NIOSH: TWA USA: OSHA: TWA	1880 mg/m <sup>3</sup> ; 1000 ppm 1000 ppm 1880 mg/m <sup>3</sup> ; 1000 ppm 1000 ppm (A3) 1900 mg/m <sup>3</sup> ; 1000 ppm 1900 mg/m <sup>3</sup> ; 1000 ppm
67-63-0	Isopropyl alcohol	Canada, Alberta: OEL 15 min Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, Québec: VECD Canada, Québec: VEMP USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	984 mg/m <sup>3</sup> ; 400 ppm 492 mg/m <sup>3</sup> ; 200 ppm 400 ppm 200 ppm 1230 mg/m <sup>3</sup> ; 500 ppm 985 mg/m <sup>3</sup> ; 400 ppm 984 mg/m <sup>3</sup> ; 400 ppm 492 mg/m <sup>3</sup> ; 200 ppm 1225 mg/m <sup>3</sup> ; 500 ppm 980 mg/m <sup>3</sup> ; 400 ppm 980 mg/m <sup>3</sup> ; 400 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of workweek

### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.



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Protective gloves according to OSHA Standard - 29 CFR: 1910.138  
(solvent-resistant)

Layer thickness: > 0.4 mm

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Do not breathe vapor or spray. Avoid contact with skin and eyes.

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Color: colorless
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	approx. 35.5 °C
Flash point/flash point range:	-35 °C
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 0.80 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Vapor pressure:	at 20 °C: 573 hPa
Vapor density:	No data available
Density:	at 20 °C: 0.7 g/mL
Water solubility:	at 20 °C, 5 g/L:
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Explosive properties:	Product is not explosive. Vapors may form explosive mixtures with air.
Ignition temperature:	200 °C
Solvent content:	100 %

## 10. Stability and reactivity

Reactivity: Extremely flammable liquid and vapor.  
Vapors may form explosive mixtures with air.

Chemical stability: Stable under recommended storage conditions.



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### Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

### Conditions to avoid:

Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight.

### Incompatible materials:

Nitric acid, strong oxidizing agents, halogens

### Hazardous decomposition products:

No hazardous decomposition products when regulations for storage and handling are observed.

### Thermal decomposition:

No data available

## 11. Toxicological information

### Toxicological tests

#### Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.

Eye damage/irritation: Based on available data, the classification criteria are not met.

Minor irritation effect - does not require labeling.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Aspiration Toxicity 1 = May be fatal if swallowed and enters airways.

#### Other information:

Information about Naphtha (petroleum), hydrotreated light, butadiene-free:

LD50 Rat, oral: > 5840 mg/kg

LD50, Rabbit, dermal: > 2920 mg/L

LC50, Rat, inhalative: > 25 mg/L/4h

For carcinogenic effects

Information about Isopropyl alcohol:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

### Symptoms

Unconsciousness, intoxication, vomiting, Headache

### General remarks

Further hazardous properties cannot be excluded.



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## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
Information about n-Pentane:  
Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae): 3 mg/L/72h.  
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 2.7 mg/L/48h .  
Fish toxicity: LC50 Oncorhynchus mykiss: 4.26 mg/L/96h  
Information about Naphtha (petroleum), hydrotreated light:  
Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae): 10.7 mg/L/72h.  
Daphnia toxicity: EL50 Daphnia magna (Big water flea): 30-100 mg/L/48h .  
Fish toxicity: LC50 Oncorhynchus mykiss: 11.4 mg/L/96h

### Mobility in soil

No data available

### Persistence and degradability

Further details: Information about n-Pentane:  
Substance floats on the water surface. Potentially explosive mixtures with air may form above water surface. Biodegradation: 87%/28 h. Product is biodegradable. (OECD 301F)  
Information about Naphtha (petroleum), hydrotreated light:  
Biodegradation: 77%/28 h. Product is biodegradable. (OECD 301F)

### Additional ecological information

Volatile organic compounds (VOC):  
100 % by weight = 669 g/L  
General information: Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

### Contaminated packaging

Recommendation: Plastic packaging Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Handle empty containers with care. Incineration may cause explosion.





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### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification number: UN1993  
Proper shipping name: UN 1993, flammable liquids, n.o.s.  
(Naphtha (petroleum), hydrotreated light; n-Pentane)  
Hazard class or Division: 3  
Packing Group: II  
Labels: 3  
Symbols: G  
Special provisions: IB2, T7, TP1, TP8, TP28  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 202  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 5 L  
Quantity limitations – Cargo only: 60 L  
Vessel stowage – Location: B



#### Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1993  
Shipping name: UN 1993, Flammable liquid, n.o.s.  
(Naphtha (petroleum), hydrotreated light; n-Pentane)  
TDG class: 3  
Packing group: II  
Special provisions: 16, 150  
Explosive limit and limited quantity index: 1 L  
Passenger carrying road or rail index: 5 L

#### Sea transport (IMDG)

UN number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Naphtha (petroleum), hydrotreated light; n-Pentane)  
Class or division, Subsidiary risk: Class 3, Subrisk-  
Packing Group: II  
EmS: F-E, S-E  
Special provisions: 274  
Limited quantities: 1 L  
Excepted quantities: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP1, TP8, TP28  
Stowage and handling: Category B.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none



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### Air transport (IATA)

UN/ID number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Naphtha (petroleum), hydrotreated light; n-Pentane)  
Class or division, Subsidiary risk: Class 3  
Packing Group: II  
Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special provisions: A3  
Emergency Response Guide-Code (ERG): 3H

## 15. Regulatory information

### National regulations - Canada

No data available

### National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light: TSCA Inventory: listed; UVCB  
TSCA HPVC: not listed  
TSCA: listed - UVCB  
n-Pentane: TSCA Inventory: listed; EPA flags T  
TSCA HPVC: not listed  
Clean Air Act:  
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g  
NIOSH Recommendations:  
Occupational Health Guideline: 0486  
Ethanol: TSCA Inventory: listed  
TSCA HPVC: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0262  
Isopropyl alcohol: TSCA Inventory: listed  
TSCA HPVC: not listed  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0359

### National regulations - U.S. State Regulations

Isopropyl alcohol: Idaho Air Pollutant List:  
Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -  
Massachusetts Haz. Substance codes: 2,4,5,6 F9  
Minnesota Haz. Substance:  
Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.  
New Jersey RTK Hazardous Substance:  
DOT: 1219 - Sub No.: 1076 - TPQ: -  
Pennsylvania Haz. Substance code: E  
Washington Air Contaminant:  
TWA: 400 ppm - 980 mg -- STEL: 500 ppm - 1225 mg



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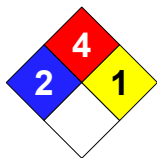
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### 16. Other information

Text for labeling: Contains 50 - 75 % Naphtha (petroleum), hydrotreated light, 10 - 25 % n-Pentane, 2.5 - 10 % Ethanol, < 1 % Isopropyl alcohol. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 4 (Severe)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	1
	X

Reason of change:

Changes in section 2: Classification, labeling  
Changes in section 3: Change of composition  
Changes in section 8: Exposure controls / personal protection  
General revision

Date of first version:

30/Mar/2017

#### Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.