



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017
Version: 4
Language: en-CA,US
Date of print: 10/Jan/2017

Electro-Contact-Cleaner Spray

Material number 112100

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1. Product and company identification

Product identifier

Trade name: Electro-Contact-Cleaner Spray

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

General use: Technical aerosol

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
E-mail: 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

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
Form: Aerosol
Color: colorless
Odor: characteristic
Classification: Flammable Aerosol 1; Compressed Gas; Skin Irritation 2;
Specific Target Organ Toxicity (Single Exposure) 3; Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
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/face protection.
IF ON SKIN: Wash with plenty of water/soap.
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).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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 have a narcotic effect.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Preparation of active ingredients with propellant

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	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 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64-17-5	Ethanol	3 - 10 %	Flammable Liquid 2.
CAS 74-98-6	Propane	3 - 10 %	Flammable Gas 1. Liquefied Gas.
CAS 106-97-8	n-Butane, pure	3 - 10 %	Flammable Gas 1. Compressed Gas.



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4. First aid measures

General information:	First aider: Pay attention to self-protection! Immediately remove any wetted clothing, shoes or stockings.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.
After swallowing:	Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Irritates skin and mucous membranes. Irritating to respiratory system. Inhalation causes narcotic effects/intoxication. Further hazardous properties cannot be excluded.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, carbon dioxide, water mist.

Extinguishing media which must not be used for safety reasons:

full water jet

Specific hazards arising from the chemical

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

May form dangerous gases and vapours in case of fire.

Carbon monoxide and carbon dioxide.

Potentially explosive vapor/air mixtures may form.

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. Cool exposed containers with water spray.

Move undamaged containers from immediate hazard area if it can be done safely.

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:

Do not breathe gas/vapor/spray. Avoid contact with the substance.

Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.



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Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.
In case of release, notify competent authorities. Danger of explosion!

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.

Additional information:

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

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.
Avoid contact with skin and eyes. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Store containers in upright position. Explosion protection required.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.



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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 ³ ; 120 ppm 1800 mg/m ³ ; 610 ppm 350 mg/m ³ ; 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 ³ ; 1000 ppm 1000 ppm 1880 mg/m ³ ; 1000 ppm 1000 ppm (A3) 1900 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 1000 ppm
74-98-6	Propane	Canada, Alberta: OEL 8 hour Canada, Québec: VEMP USA: NIOSH: TWA USA: OSHA: TWA	1000 ppm 1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm
106-97-8	n-Butane, pure	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, Ontario: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA	1000 ppm 750 ppm 600 ppm 800 ppm 1900 mg/m ³ ; 800 ppm 2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

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.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves).
Glove material: Nitrile rubber - Layer thickness: 0.7 mm
Breakthrough time: >480 min.
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/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit 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 gas/vapor/spray. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol 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:	not applicable
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
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: 0.669 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. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	200 °C

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Contains gas under pressure; may explode if heated.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Incompatible materials:	Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. carbon monoxide and carbon dioxide
Thermal decomposition:	No data available



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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): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5000 mg/kg.
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.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
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: Based on available data, the classification criteria are not met.

Other information: Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
LD50 Rat, oral: > 5800 mg/kg.
LD50 Rabbit, dermal: > 2920 mg/kg.
LD50 Rat, inhalative: > 25 mg/l/4h.

Symptoms

May cause drowsiness or dizziness. Irritates skin and mucous membranes. Irritating to respiratory system. Inhalation causes narcotic effects/intoxication. Further hazardous properties cannot be excluded.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Pentane:
Fish toxicity: LC50 Oncorhynchus mykiss 4,26 mg/L/96h
Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
Daphnia toxicity: EC50 Daphnia magna: 3 mg/L/48h

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):
100 % by weight = 669 g/L

General information: Avoid spills and leaks. Very small amounts contaminates drinking water.
Do not allow to enter into ground-water, surface water or drains.



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13. Disposal considerations

Product

Recommendation: Do not pierce or burn, even after use.
Special waste. Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care.
Incineration may cause explosion. Empty carefully and completely, if possible.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail:
75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1950
Shipping name: UN 1950, AEROSOLS
TDG class: 2.1
Special provisions: 80, 107
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 75 L

Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381,959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes
Segregation group: none



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Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L

15. Regulatory information

National regulations - Canada

No data available

National regulations - U.S. Federal Regulations

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
n-Pentane: TSCA Inventory: listed
TSCA HPVC: not listed
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
TSCA: listed
NIOSH Recommendations:
Occupational Health Guideline: 0262

Propane: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0524

n-Butane, pure: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0068*

National regulations - U.S. State Regulations

California Proposition 65: Not listed.

16. Other information

Text for labeling: Contains 50 - 75 % Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, 10 - 25 % n-Pentane, 3 - 10 % Ethanol, 3 - 10 % Propane, 3 - 10 % n-Butane, pure. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 4 (Severe)

Physical Hazard: 2 (Moderate)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	2
	X

Reason of change:

ADR/RID 2017, IMDG 2017

Date of first version:

8/Dec/2015

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.