



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 5

Language: en-CA,US

Date of print: 10/Jan/2017

## Contact VA 1401

Material number 120540

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## 1. Product and company identification

### Product identifier

Trade name: Contact VA 1401

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

General use: Adhesive.  
Reserved for industrial and professional use.

### 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  
Color: colorless  
Odor: characteristic, stinging  
Classification: Flammable Liquid 4; Skin Irritation 2; Eye Irritation 2A;  
Specific Target Organ Toxicity (Single Exposure) 3;

Hazard symbols:



Signal word:

**Warning**

Hazard statements:

Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.



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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.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
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.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing.  
In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.  
Store in a well-ventilated place. Keep container tightly closed.  
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

Contains Ethyl 2-cyanoacrylate. Cyanacrylate - Danger - skin and eyelids will stick together in seconds. Keep out of the reach of children.  
Potentially explosive mixtures may form if adequate ventilation is not provided.  
Higher doses may have a narcotic effect.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Adhesive based on cyanoacrylic acid ester.

Relevant ingredients:

| CAS No.       | Designation           | Content     | Classification  |
|---------------|-----------------------|-------------|---|
| CAS 7085-85-0 | Ethyl 2-cyanoacrylate | 60 - 99.9 % | Flammable Liquid 4. Skin Irritation 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3. |

## 4. First aid measures

General information: Cyanacrylate - Danger - skin and eyelids will stick together in seconds. Take off immediately all contaminated clothing.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing has stopped, give artificial respiration immediately. Seek medical attention.

Following skin contact: Do not peel solidified product off the skin. Immediately clean with water and soap or cleanse with acetone followed by thorough rinsing. If product comes into contact with lips, hold mouth open. Do not allow lips to contact one another. Immediately get medical attention.



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- After eye contact: Keep eye wide open. 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. Do not attempt to pull apart bonded eyelid. Subsequently seek the immediate attention of an ophthalmologist.
- After swallowing: Do not induce vomiting. Keep airway open. Immediately get medical attention.

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

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.  
Higher doses may have a narcotic effect.  
Cough, shortage of breath, respiratory complaints.

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

83 °C

Auto-ignition temperature: not applicable

Suitable extinguishing media:

Water fog, extinguishing powder, alcohol resistant foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet.

### Specific hazards arising from the chemical

Combustible liquid. In case of fire may be liberated: Cyanide, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.  
May form dangerous gases and vapours in case of fire.

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:

Cyanacrylate - Danger - skin and eyelids will stick together in seconds.

Avoid contact with skin, eyes, and clothing.

Provide adequate ventilation. Do not breathe vapor.

Wear appropriate protective equipment. Keep unprotected people away.

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).



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

## 7. Handling and storage

### Handling

Advices on safe handling: Provide good ventilation and/or an exhaust system in the work area.  
 Handle and open container with care. Avoid contact with skin, eyes, and clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and soap/shower.  
 Do not breathe gas/fume/vapour/spray. Wear appropriate protective equipment. Wash hands before breaks and after work.  
 Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Precautions against fire and explosion:  
 Take care of general rules for industrial preventive fire protection.  
 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.

### 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.  
 Protect from heat and direct sunlight.  
 Store containers in upright position. Explosion protection required. Protect from moisture contamination.

Hints on joint storage:  
 Do not store together with combustible or self-igniting materials or any highly flammable solids.  
 Do not store together with alkalis, oxidizing agents, amines or acids.  
 Keep away from food, drink and animal feedingstuffs.

Further details:  
 Handle in accordance with good industrial hygiene and safety practice.  
 Before opening the container let the product reach room temperature as otherwise the formation of dew might be resulting.  
 Do not return unused portions of product to original container.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

| CAS No.   | Designation           | Type                        | Limit value                   |
|-----------|-----------------------|-----------------------------|-------------------------------|
| 7085-85-0 | Ethyl 2-cyanoacrylate | Canada, Alberta: OEL 8 hour | 1 mg/m <sup>3</sup> ; 0.2 ppm |
|           |                       | Canada, BC: OEL TWA         | 0.2 ppm                       |
|           |                       | USA: ACGIH: TWA             | 1 mg/m <sup>3</sup> ; 0.2 ppm |

### 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.



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- Skin protection** Wear suitable protective clothing.  
Recommendation: Flame retardant, antistatic and chemical resistant protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber  
Layer thickness: > 0.4 mm  
Breakthrough time: > 60 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection:** Provide adequate ventilation. If necessary: Respiratory protection mask.  
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:**  
Cyanacrylate - Danger - skin and eyelids will stick together in seconds. Keep out of the reach of children.  
Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes, and clothing. When using do not eat or drink. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and soap/shower. Wash contaminated clothing before reuse.  
Wash hands before breaks and after work. Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
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<br>Color: colorless                          |
| Odor:                                    | characteristic, stinging   |
| Odor threshold:                          | No data available  |
| pH value:                                | No data available  |
| Melting point/freezing point:            | not determined   |
| Initial boiling point and boiling range: | > 100 °C   |
| Flash point/flash point range:           | 83 °C  |
| Evaporation rate:                        | No data available  |
| Flammability:                            | Combustible liquid.  |
| Explosion limits:                        | LEL (Lower Explosion Limit): not applicable<br>UEL (Upper Explosive Limit): not applicable |
| Vapor pressure:                          | approx. 0.6 hPa  |
| Vapor density:                           | No data available  |
| Density:                                 | 1.1 g/mL   |
| Solubility:                              | partially soluble approx. (Acetone)  |
| Partition coefficient: n-octanol/water:  | No data available  |
| Auto-ignition temperature:               | not applicable   |
| Thermal decomposition:                   | No data available  |
| Viscosity, dynamic:                      | approx. 95 mPa*s   |
| Explosive properties:                    | Product is not explosive.<br>Vapors may form explosive mixtures with air.                  |
| Oxidizing characteristics:               | not oxidising  |
| Ignition temperature:                    | not determined   |



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### 10. Stability and reactivity

- Reactivity:** Combustible liquid.  
Vapors may form explosive mixtures with air.  
Explosive reaction with water.
- Chemical stability:** Stable under recommended storage conditions.
- Possibility of hazardous reactions**  
Heating will lead to pressure increase: Danger of bursting and explosion.  
At heat, humidity: Polymerization along with heat production.  
May polymerize under the influence of light.
- Conditions to avoid:** Protect from moisture contamination. Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight.
- Incompatible materials:** Alkalis, oxidizing agents, amines, water, acids, strong bases.
- Hazardous decomposition products:**  
In case of fire may be liberated: Cyanide, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.  
May form dangerous gases and vapours in case of fire.
- 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): Based on available data, the classification criteria are not met.  
ATEmix (calculated): ATE > 5000 mg/kg.  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): ATE > 2000 mg/kg.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.  
Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Information about Ethyl 2-cyanoacrylate: not sensitising.  
Sensitization has been observed only in sensitive humans.  
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 respiratory irritation.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.
- Other information:** Information about Ethyl 2-cyanoacrylate:  
Acute oral toxicity: LD50, Rat: > 5000 mg/kg (OECD 401)  
Acute dermal toxicity: LD50, Rabbit: > 2000 mg/kg (OECD 402)



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### Symptoms

Cough, shortage of breath, respiratory complaints.

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

Further details: Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

### Additional ecological information

AOX reference: Ecotoxicological effects: The product has not been tested.  
The statement is derived from products of similar structure or composition.

General information: Do not allow uncontrolled discharge of product into the environment.  
Do not allow to penetrate into soil, waterbodies or drains.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

### Contaminated packaging

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

## 14. Transport information

### USA: Department of Transportation (DOT)

Identification number: UN1133  
Proper shipping name: UN 1133, adhesives  
Hazard class or Division: 3  
Packing Group: III  
Labels: 3  
Special provisions: B1, B52, IB3, T2, TP1  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 173  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 60 L  
Quantity limitations – Cargo only: 220 L  
Vessel stowage – Location: A  
Vessel stowage – Other:





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

UN Number: UN1133  
 Shipping name: UN 1133, adhesives  
 TDG class: 3  
 Packing group: III  
 Explosive limit and limited quantity index: 5L  
 Passenger carrying road or rail index: 60L

### Sea transport (IMDG)

Proper shipping name: Not restricted  
 Marine pollutant: no

### Air transport (IATA)

UN/ID number: UN 3334  
 Proper shipping name: UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)  
 Class or division, Subsidiary risk: Class 9  
 Packing Group: III  
 Hazard label: Miscellaneous  
 Excepted Quantity Code: E1  
 Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G  
 Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
 Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
 Special provisions: A27  
 Emergency Response Guide-Code (ERG): 9A

## 15. Regulatory information

### National regulations - Canada

No data available

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

Ethyl 2-cyanoacrylate: TSCA Inventory: listed  
 TSCA HPVC: not listed

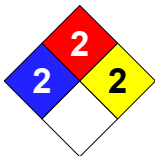
### National regulations - U.S. State Regulations

Ethyl 2-cyanoacrylate: California Proposition 65: Not listed.

## 16. Other information

Text for labeling: Contains 60 - 99.9 % Ethyl 2-cyanoacrylate. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:  
 Health: 2 (Moderate)  
 Fire: 2 (Moderate)  
 Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 2 (Moderate)  
 Flammability: 2 (Moderate)  
 Physical Hazard: 2 (Moderate)  
 Personal Protection: X = Consult your supervisor

|                 |   |
|-----------------|---|
| HEALTH          | 2 |
| FLAMMABILITY    | 2 |
| PHYSICAL HAZARD | 2 |
|                 | X |

Reason of change: IATA-DGR 2017

Date of first version: 22/Oct/2015

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information





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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.