

**SAFETY DATA SHEET****CCH UNIVERSAL CONTACT CLEANER, AEROSOL**

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

**1. Identification****Product identifier****Product name** CCH UNIVERSAL CONTACT CLEANER, AEROSOL**Product number** MCC-CCH10A, MCC-CCH10Y**Recommended use of the chemical and restrictions on use****Application** Cleaning agent.**Uses advised against** No specific uses advised against are identified.**Details of the supplier of the safety data sheet****Supplier** MICROCARE CORPORATION**Manufacturer** MICROCARE CORPORATION  
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New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: + 1 800 638 0125, +1 860-827-0626  
Fax: +1 860-893-1930  
techsupport@microcare.com**Emergency telephone number****Emergency telephone** CHEMTREC 1-800-424-9300 (within the U.S.)  
+1 703-741-5970 (from anywhere in the world)**2. Hazard(s) identification****Classification of the substance or mixture****OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.**Physical hazards** Not Classified**Health hazards** Repr. 1B - H360**Environmental hazards** Not Classified**Human health** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild dermatitis, allergic skin rash.**Environmental** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.**Physicochemical** Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. Not considered to be a significant hazard due to the small quantities used. Gas or vapor displaces oxygen available for breathing (asphyxiant). H229 Pressurised container: may burst if heated**Label elements**

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

## Pictogram



## Signal word

Danger

## Hazard statements

H360 May damage fertility or the unborn child.

## Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.

P501 Dispose of contents/ container in accordance with national regulations.

## Supplemental label information

Safety data sheet available on request. For use in industrial installations only.

## Contains

METHANOL

## 3. Composition/information on ingredients

## Mixtures

|                                                                                                                                                                                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>trans-1-Chloro-3,3,3-trifluoropropene</b>                                                                                                                                     | <b>60-100%</b> |
| CAS number: 102687-65-0                                                                                                                                                          |                |
| <b>Classification</b><br>Press. Gas, Liquefied - H280                                                                                                                            |                |
| <b>TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE</b>                                                                                                                                       | <b>10-30%</b>  |
| CAS number: 29118-24-9                                                                                                                                                           |                |
| <b>Classification</b><br>Press. Gas, Liquefied - H280                                                                                                                            |                |
| <b>ETHANOL</b>                                                                                                                                                                   | <b>1-5%</b>    |
| CAS number: 64-17-5                                                                                                                                                              |                |
| <b>Classification</b><br>Flam. Liq. 2 - H225                                                                                                                                     |                |
| <b>METHANOL</b>                                                                                                                                                                  | <b>&lt;1%</b>  |
| CAS number: 67-56-1                                                                                                                                                              |                |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Acute Tox. 3 - H301<br>Acute Tox. 3 - H311<br>Acute Tox. 3 - H331<br>Eye Irrit. 2A - H319<br>Repr. 1B - H360<br>STOT SE 1 - H370 |                |

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|                                                                                                                 |               |
|-----------------------------------------------------------------------------------------------------------------|---------------|
| <b>ISOBUTYL METHYL KETONE</b>                                                                                   | <b>&lt;1%</b> |
| CAS number: 108-10-1                                                                                            |               |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Acute Tox. 4 - H332<br>Eye Irrit. 2A - H319<br>STOT SE 3 - H335 |               |
| <b>ETHYL ACETATE</b>                                                                                            | <b>&lt;1%</b> |
| CAS number: 141-78-6                                                                                            |               |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Eye Irrit. 2A - H319<br>STOT SE 3 - H336                        |               |

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200

**Composition****4. First-aid measures****Description of first aid measures**

|                                   |                                                                                                                                                                                                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>        | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.                                                                                                               |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.                                                      |
| <b>Skin Contact</b>               | Rinse with water.                                                                                                                                                                                                |
| <b>Eye contact</b>                | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.                                                                                      |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.                                                                                                                              |

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

|                            |                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | Spray/mists may cause respiratory tract irritation.                                                         |
| <b>Ingestion</b>           | Due to the physical nature of this product, it is unlikely that ingestion will occur.                       |
| <b>Skin contact</b>        | Repeated exposure may cause skin dryness or cracking.                                                       |
| <b>Eye contact</b>         | May be slightly irritating to eyes. May cause discomfort.                                                   |

**Indication of immediate medical attention and special treatment needed**

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**Notes for the doctor**                      Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media**    The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**    Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

**Specific hazards**                      Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant.

**Hazardous combustion products**    Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting**    Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**    Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions**                      Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Risk of explosion.

#### Environmental precautions

**Environmental precautions**    Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up**                      Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

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**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Avoid exposing aerosol containers to high temperatures or direct sunlight. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapors and spray/mists.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

**Storage class** Miscellaneous hazardous material storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

**Reference to other sections.** Store away from incompatible materials (see Section 10).

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### **trans-1-Chloro-3,3,3-trifluoropropene**

Long-term exposure limit (8-hour TWA): SUP 800 ppm

##### **ETHANOL**

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m<sup>3</sup>

A3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m<sup>3</sup>

##### **METHANOL**

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m<sup>3</sup>

Sk

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m<sup>3</sup>

##### **ISOBUTYL METHYL KETONE**

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 82 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 75 ppm 307 mg/m<sup>3</sup>

A3

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 410 mg/m<sup>3</sup>

##### **ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1440 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 1400 mg/m<sup>3</sup>

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ACGIH = American Conference of Governmental Industrial Hygienists.  
 A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
 OSHA = Occupational Safety and Health Administration.  
 Sk = Danger of cutaneous absorption.

**Ingredient comments** ACGIH = US Standard. SUP = Supplier's recommendation. OES = Occupational Exposure Standard.

### trans-1-Chloro-3,3,3-trifluoropropene (CAS: 102687-65-0)

**Ingredient comments** No exposure limits known for ingredient(s).

### ETHANOL (CAS: 64-17-5)

**Ingredient comments** WEL = Workplace Exposure Limits

### METHANOL (CAS: 67-56-1)

**Biological limit values** 15 mg/l

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

#### Hand protection

No specific hand protection recommended. Avoid contact with skin.

#### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

#### Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

#### Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** Aerosol. Liquid. Gas  
**Color** Clear liquid. Colorless.  
**Odor** Slight.

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|                                                     |                                                            |
|-----------------------------------------------------|------------------------------------------------------------|
| <b>Odor threshold</b>                               | No information available.                                  |
| <b>pH</b>                                           | Not applicable.                                            |
| <b>Melting point</b>                                | Not applicable.                                            |
| <b>Initial boiling point and range</b>              | 19°C/66°F @ 101.3 kPa                                      |
| <b>Flash point</b>                                  | Not applicable. The product is not flammable.              |
| <b>Evaporation rate</b>                             | Not determined.                                            |
| <b>Evaporation factor</b>                           | No information available.                                  |
| <b>Flammability (solid, gas)</b>                    | No information available.                                  |
| <b>Upper/lower flammability or explosive limits</b> | Not applicable.                                            |
| <b>Other flammability</b>                           | No information available.                                  |
| <b>Vapor pressure</b>                               | 1.91 kPa @ 20°C                                            |
| <b>Vapor density</b>                                | >1                                                         |
| <b>Relative density</b>                             | 1.24                                                       |
| <b>Bulk density</b>                                 | No information available.                                  |
| <b>Solubility(ies)</b>                              | Slightly soluble in water.                                 |
| <b>Partition coefficient</b>                        | No information available.                                  |
| <b>Auto-ignition temperature</b>                    | No information available.                                  |
| <b>Decomposition Temperature</b>                    | No information available.                                  |
| <b>Viscosity</b>                                    | No information available.                                  |
| <b>Explosive properties</b>                         | No information available.                                  |
| <b>Global Warming Potential (GWP)</b>               |                                                            |
| <b>Refractive index</b>                             | No information available.                                  |
| <b>Particle size</b>                                | No information available.                                  |
| <b>Molecular weight</b>                             | No information available.                                  |
| <b>Volatility</b>                                   | 100%                                                       |
| <b>Saturation concentration</b>                     | No information available.                                  |
| <b>Critical temperature</b>                         | No information available.                                  |
| <b>Volatile organic compound</b>                    | This product contains a maximum VOC content of 59 g/litre. |

### 10. Stability and reactivity

|                                           |                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See the other subsections of this section for further details.                                                      |
| <b>Stability</b>                          | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
| <b>Possibility of hazardous reactions</b> | No potentially hazardous reactions known.                                                                           |

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

|                                         |                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions to avoid</b>              | Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated                                               |
| <b>Materials to avoid</b>               | No specific material or group of materials is likely to react with the product to produce a hazardous situation.                                                    |
| <b>Hazardous decomposition products</b> | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. |

### 11. Toxicological information

#### Information on toxicological effects

**Other health effects**                      There is no evidence that the product can cause cancer.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)**                      Based on available data the classification criteria are not met.

**ATE oral (mg/kg)**                      50,384.18

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)**                      Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)**                      151,152.54

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)**                      Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)**                      1,511.53

**ATE inhalation (dusts/mists mg/l)**                      251.92

#### Skin corrosion/irritation

**Animal data**                      Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation**                      Based on available data the classification criteria are not met.

#### Respiratory sensitization

**Respiratory sensitization**                      Based on available data the classification criteria are not met.

#### Skin sensitization

**Skin sensitization**                      Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro**                      Based on available data the classification criteria are not met.

#### Carcinogenicity

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

**IARC carcinogenicity**                      Contains a substance/a group of substances which may cause cancer. IARC Group 1  
Carcinogenic to humans.

#### Reproductive toxicity

**Reproductive toxicity - fertility**                      Based on available data the classification criteria are not met.

**Reproductive toxicity - development**                      Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

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**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Spray/mists may cause respiratory tract irritation.

**Ingestion** Due to the physical nature of this product, it is unlikely that ingestion will occur.

**Skin Contact** Repeated exposure may cause skin dryness or cracking.

**Eye contact** May be slightly irritating to eyes. May cause discomfort.

**Route of exposure** Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

**Medical Symptoms** Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

### Toxicological information on ingredients.

#### trans-1-Chloro-3,3,3-trifluoropropene

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** No information available.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** No information required.

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 120,000.0

**Species** Rat

**ATE inhalation (gases ppm)** 120,000.0

**Inhalation** Vapors may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

**Ingestion** May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

**Skin Contact** Product has a defatting effect on skin. May cause allergic contact eczema.

**Eye contact** May cause temporary eye irritation.

**Medical Symptoms** Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

#### TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE

**CCH UNIVERSAL CONTACT CLEANER, AEROSOL****Acute toxicity - inhalation**

**Acute toxicity inhalation** 207,000.0  
(LC<sub>50</sub> vapours mg/l)

**Species** Rat

**ATE inhalation (vapours** 207,000.0  
**mg/l)**

**ETHANOL****Acute toxicity - inhalation**

**Acute toxicity inhalation** 20,000.0  
(LC<sub>50</sub> vapours mg/l)

**ATE inhalation (vapours** 20,000.0  
**mg/l)**

**METHANOL****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** Acute Tox. 3 - H301 Toxic if swallowed.

**ATE oral (mg/kg)** 100.0

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** Acute Tox. 3 - H311 Toxic in contact with skin.

**ATE dermal (mg/kg)** 300.0

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** Acute Tox. 3 - H331 Toxic if inhaled.

**ATE inhalation (vapours** 3.0  
**mg/l)**

**ATE inhalation** 0.5  
**(dusts/mists mg/l)**

**Skin corrosion/irritation**

**Animal data** Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

**Serious eye** Based on available data the classification criteria are not met.  
**damage/irritation**

**Respiratory sensitization**

**Respiratory sensitization** Based on available data the classification criteria are not met.

**Skin sensitization**

**Skin sensitization** Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Carcinogenicity**

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

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**IARC carcinogenicity** None of the ingredients are listed or exempt.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 1 - H370 Causes damage to organs .

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal.

**Ingestion** May cause stomach pain or vomiting. May cause severe internal injury.

**Skin Contact** A single exposure may cause the following adverse effects: Pain.

**Eye contact** No specific symptoms known.

**Route of exposure** Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

### ISOBUTYL METHYL KETONE

### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

### Carcinogenicity

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

## 12. Ecological information

**Ecotoxicity** There are no data on the ecotoxicity of this product.

### Ecological information on ingredients.

#### trans-1-Chloro-3,3,3-trifluoropropene

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

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**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**Toxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### trans-1-Chloro-3,3,3-trifluoropropene

##### Acute aquatic toxicity

**Acute toxicity - fish** , : , Oncorhynchus mykiss (Rainbow trout)  
LC<sub>50</sub>, 96 hours: 38 mg/l mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 82 mg/l, Freshwater invertebrates

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 106.7 mg/l, Freshwater algae  
NOEC, 72 hours: 115 mg/l, Freshwater algae

#### TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE

##### Acute aquatic toxicity

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >160 mg/l, Daphnia magna

#### ETHANOL

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >10,000 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 7,800 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** , 96 hours: 1000 mg/l, Freshwater algae

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**Toxicity** Based on available data the classification criteria are not met.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >10000 mg/l, Daphnia magna

### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Ecological information on ingredients.

#### trans-1-Chloro-3,3,3-trifluoropropene

**Persistence and degradability** The product is not readily biodegradable.

#### TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE

**CCH UNIVERSAL CONTACT CLEANER, AEROSOL**

**Persistence and degradability** The product is not readily biodegradable.

**ETHANOL**

**Persistence and degradability** The product is expected to be biodegradable.

**METHANOL**

**Persistence and degradability** The degradability of the product is not known.

**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

**Ecological information on ingredients.****trans-1-Chloro-3,3,3-trifluoropropene**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Kow: 2.09

**ETHANOL**

**Bio-Accumulative Potential** Bioaccumulation is unlikely.

**Partition coefficient** No information available.

**METHANOL**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** : -0.77

**Mobility in soil**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**Ecological information on ingredients.****trans-1-Chloro-3,3,3-trifluoropropene**

**Mobility** No data available.

**ETHANOL**

**Mobility** The product is soluble in water.

**METHANOL**

**Mobility** No data available.

**Other adverse effects**

**Other adverse effects** None known.

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

### Ecological information on ingredients.

#### trans-1-Chloro-3,3,3-trifluoropropene

Other adverse effects      None known.

#### METHANOL

Other adverse effects      None known.

### **13. Disposal considerations**

#### Waste treatment methods

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. |
| <b>Disposal methods</b>    | Do not empty into drains. Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents.                                                                                                      |

### **14. Transport information**

#### UN Number

UN No. (IMDG)              1950

UN No. (ICAO)             1950

#### UN proper shipping name

Proper shipping name (TDG)    LIMITED QUANTITY

Proper shipping name (IMDG)   UN1950 AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY

Proper shipping name (ICAO)   UN1950 AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY

Proper shipping name (DOT)    LIMITED QUANTITY

#### Transport hazard class(es)

IMDG Class                2.2 LIMITED QUANTITY

ICAO class/division        2.2 LIMITED QUANTITY

ICAO subsidiary risk        N/A

#### Packing group

TDG Packing Group        N/A

IMDG packing group        N/A

ICAO packing group        N/A

DOT packing group        N/A

#### Environmental hazards

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

### Environmentally Hazardous Substance

No.

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78  
and the IBC Code

### 15. Regulatory information

#### Guidance

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

#### US Federal Regulations

##### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

##### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

##### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

##### SARA 313 Emission Reporting

The following ingredients are listed or exempt:

##### CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

##### FDA - Essential Chemical

None of the ingredients are listed or exempt.

##### FDA - Precursor Chemical

None of the ingredients are listed or exempt.

##### SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

##### OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

#### US State Regulations

##### California Proposition 65 Carcinogens and Reproductive Toxins



WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

##### California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

##### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

##### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

### ETHANOL

#### Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

### ETHANOL

#### Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

### ETHANOL

#### Minnesota "Right To Know" List

The following ingredients are listed or exempt:

### ETHANOL

#### New Jersey "Right To Know" List

The following ingredients are listed or exempt:

### ETHANOL

#### Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

### ETHANOL

### Inventories

#### Canada - DSL/NDL

DSL

### ETHANOL

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE

trans-1-Chloro-3,3,3-trifluoropropene

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

### 16. Other information

|                                                  |                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Classification abbreviations and acronyms</b> | Aerosol = Aerosol<br>Aquatic Chronic = Hazardous to the aquatic environment (chronic)  |
| <b>Training advice</b>                           | Only trained personnel should use this material.                                       |
| <b>Revision comments</b>                         | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| <b>Revision date</b>                             | 5/28/2019                                                                              |
| <b>Revision</b>                                  | 52                                                                                     |
| <b>Supersedes date</b>                           | 1/24/2019                                                                              |
| <b>SDS No.</b>                                   | AEROSOL - CCH                                                                          |
| <b>SDS status</b>                                | Approved.                                                                              |

## CCH UNIVERSAL CONTACT CLEANER, AEROSOL

**Hazard statements in full**

H225 Highly flammable liquid and vapor.  
H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.  
H370 Causes damage to organs .

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.