

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-CCH107, MCC-CCH10Y

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier MicroCare Corporation

Manufacturer MICROCARE CORPORATION

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

Tel: +1 860-827-0626 Fax: +1 860-827-8105 techsupport@microcare.com

Emergency telephone number

Emergency telephone CHEMTREC (800) 424-9300 CHEMTREC +1 703-741-5970

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Aerosol 3

Health hazards Not Classified

Environmental hazards Aquatic Chronic 3 - H412

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

Signal word Warning

Hazard statements H412 Harmful to aquatic life with long lasting effects.

CCH UNIVERSAL CONTACT CLEANER, AEROSOL

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

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

P273 Avoid release to the environment.

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.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

Trans-1-chloro-3,3,3-trifluoropropene

60-100%

CAS number: 102687-65-0

Classification

Press. Gas, Liquefied - H280

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

10-30%

CAS number: 29118-24-9

Classification

Press. Gas, Liquefied - H280

ETHANOL 5-10%

CAS number: 64-17-5

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H335

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret in

accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are

on the TSCA Inventory.

Composition

4. First-aid measures

Description of first aid measures

General information Never give anything by mouth to an unconscious person. Do not induce vomiting. Place

unconscious person on the side in the recovery position and ensure breathing can take place.

If breathing stops, provide artificial respiration. Consult a physician for specific advice.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and

> keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical

attention.

CCH UNIVERSAL CONTACT CLEANER, AEROSOL

Ingestion Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not

enter the lungs. Never give anything by mouth to an unconscious person. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical

attention.

Skin Contact Remove contaminated clothing and rinse skin thoroughly with water.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Consult a physician for specific advice.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Get medical attention promptly if symptoms occur after washing.

Inhalation Upper respiratory irritation. Vapors are heavier than air and may travel along the floor and

accumulate in the bottom of containers. Gas or vapor displaces oxygen available for breathing

(asphyxiant). Prolonged or excessive inhalation may cause respiratory tract irritation.

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

intoxication. Fumes from the stomach contents may be inhaled, resulting in the same

symptoms as inhalation.

Skin contact Skin irritation. This product is rapidly absorbed through the skin and may cause symptoms

similar to those of ingestion.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain. May cause blurred vision and serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Specific hazards Keep away from heat, sparks and open flame. Thermal decomposition or combustion

products may include the following substances: Toxic and corrosive gases or vapors. Aerosol

containers can explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of carbon. Fire or high temperatures create: Carbonyl compounds. Mineral

acids.

Advice for firefighters

Protective actions during

firefighting

Move containers from fire area if it can be done without risk.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation.

Avoid inhalation of vapors. Use approved respirator if air contamination is above an

acceptable level.

CCH UNIVERSAL CONTACT CLEANER, AEROSOL

Environmental precautions

Environmental precautionsContain spillage with sand, earth or other suitable non-combustible material. Avoid release to

the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-

combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers

and seal securely.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes.

Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors. Keep

out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

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

Long-term exposure limit (8-hour TWA): ACGIH

Short-term exposure limit (15-minute): ACGIH 1000 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

Additional Occupational

Exposure Limits

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).

DNEL Workers - Inhalation; Long term systemic effects: 1779 mg/m³

DMEL Consumer - Inhalation; Long term systemic effects: 379 mg/m³

Exposure controls

Protective equipment





Appropriate engineering

controls

No specific ventilation requirements. This product must not be handled in a confined space

without adequate ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. Unless the assessment indicates a higher degree of protection is

required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination. Wear

apron or protective clothing in case of contact.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should

always be observed when working with chemical products. When using do not eat, drink or

smoke.

Respiratory protectionConsidering the size of the packaging, the risk is regarded as minimal. Vapors are heavier

than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear self-contained

breathing apparatus with full facepiece.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Aerosol. Liquid. Gas

Color Clear liquid. Colorless.

Odor Slight.

Odor threshold No information available.

pH Not applicable.

Melting point Not applicable.

Initial boiling point and range 19°C/66°F @ 101.3 kPa

Flash point Not applicable. The product is not flammable.

Evaporation rate Not determined.

Evaporation factor No information available.

Flammability (solid, gas) No information available.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability No information available.

Vapor pressure 1.91 kPa @ 20°C

Vapor density >1

Relative density 1.24

CCH UNIVERSAL CONTACT CLEANER, AEROSOL

Bulk density No information available.

Solubility(ies) Slightly soluble in water.

Partition coefficient No information available.

Auto-ignition temperature No information available.

Decomposition Temperature No information available.

Viscosity No information available.

Explosive properties No information available.

Refractive index No information available.

Particle size No information available.

Molecular weight No information available.

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound This product contains a maximum VOC content of 59 g/litre.

Flammability The product is not flammable.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Keep away from heat, sparks and open flame. Thermal decomposition or combustion

products may include the following substances: Toxic and corrosive gases or vapors.

Materials to avoid Alkali metals. Alkaline earth metals.

Hazardous decomposition

products

Heating may generate the following products: Toxic and corrosive gases or vapors.

Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide

(CO).

11. Toxicological information

Information on toxicological effects

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

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.

CCH UNIVERSAL CONTACT CLEANER, AEROSOL

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 LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information required.

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

965.0

Species Rat

ATE inhalation (vapours

mg/l)

965.0

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

EcotoxicityThe product contains a substance which is toxic to aquatic organisms and which

may cause long-term adverse effects in the aquatic environment.

Toxicity

Ecological information on ingredients.

Trans-1-chloro-3,3,3-trifluoropropene

Acute toxicity - fish , : , Onchorhynchus mykiss (Rainbow trout)

LC₅₀, 96 hours: 38 mg/l mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 82 mg/l, Freshwater invertebrates

Acute toxicity - aquatic

plants

EC₅₀, 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 toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >160 mg/l, Daphnia magna

ETHANOL

LC₅₀, 96 hours: >10,000 mg/l, Fish Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

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

Persistence and

degradability

The product is not readily biodegradable.

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

Mobility in soil

Mobility The product contains volatile substances which may spread in the atmosphere.

Ecological information on ingredients.

Trans-1-chloro-3,3,3-trifluoropropene

Mobility No data available.

Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

Trans-1-chloro-3,3,3-trifluoropropene

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB. No data

available.

Other adverse effects

Other adverse effects The product contains a substance which has a photochemical ozone creation potential.

Ecological information on ingredients.

assessment

Trans-1-chloro-3,3,3-trifluoropropene

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Empty containers must not be punctured or incinerated because of the risk of an explosion. Aerosol containers can explode when heated, due to

excessive pressure build-up. Reuse or recycle products wherever possible.

14. Transport information

UN Number

UN No. (TDG) UN1950

UN No. (IMDG) UN1950

UN No. (ICAO) UN1950

UN No. (DOT) UN1950

UN proper shipping name

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

Transport hazard class(es)

TDG class 2.2

TDG label(s) 2

IMDG Class 2.2

ICAO class/division 2.2

ICAO subsidiary risk N/A

Transport labels



Packing group

TDG Packing Group N/A

IMDG packing group N/A

ICAO packing group N/A

DOT packing group N/A

Environmental hazards

Environmentally Hazardous Substance

No.

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

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

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

Acute Pressure

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

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

Not listed.

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

Not listed.

California Directors List of Hazardous Substances

Not listed.

Massachusetts "Right To Know" List

ETHANOL

Yes.

Rhode Island "Right To Know" List

ETHANOL

Yes.

Minnesota "Right To Know" List

ETHANOL

Yes.

New Jersey "Right To Know" List

ETHANOL

Yes.

Pennsylvania "Right To Know" List

ETHANOL

Yes.

Inventories

Canada - DSL/NDSL

Yes

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

DSL

ETHANOL

Domestic Substance List

US - TSCA

Yes

16. Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 3/4/2016

Revision 17

Supersedes date 3/4/2016

SDS No. AEROSOL - CCH

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

NFPA - health hazard Temporary incapacitation, injury. (2)

NFPA - flammability hazard Burns only if pre-heated. (1)

NFPA - instability hazard Normally stable. (0)

NFPA - special hazard N/A

ACA HMIS Health rating. Moderate Hazard. (2)

ACA HMIS Flammability

rating.

Burns only if pre-heated. (1)

ACA HMIS Physical hazard Normally stable. (0)

rating.

ACA HMIS Personal

protection rating.

N/A.

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.