

SAFETY DATA SHEET VOC - VOC FREE FLUX REMOVER - ULTRACLEAN, AEROSOL

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

1. Identification

Product identifier

Product name VOC - VOC FREE FLUX REMOVER - ULTRACLEAN, AEROSOL

Product number MCC-VOC10A,MCC-VOC107,MCC-VOC10Y

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier MicroCare Corporation

Contact Person techsupport@microcare.com

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

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 Flam. Aerosol 1 - H222 Press. Gas, Liquefied - H280

Health hazards Not Classified

Human health Splashes in the eyes may cause redness and irritation. Keep out of the reach of children. See

Section 11 for additional information on health hazards.

Physicochemical Pressurized container: protect from sunlight and do not expose to temperatures exceeding

50°C. Do not pierce or burn, even after use.

Label elements

Pictogram





Signal word Danger

VOC - VOC FREE FLUX REMOVER - ULTRACLEAN, AEROSOL

Hazard statements H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

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
P410+P403 Protect from sunlight. Store in a well-ventilated place.

Supplemental label

information

EUH210 Safety data sheet available on request. RCH001a 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

Methyl Siloxane 30-60%

CAS number: 107-46-0

Classification

Flam. Liq. 2 - H225 Not relevant.

DIMETHYL CARBONATE 10-30%

CAS number: 616-38-6

Classification

Flam. Liq. 2 - H225

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

10-30%

CAS number: 29118-24-9

Classification

Press. Gas, Liquefied - H280

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.

4. First-aid measures

Description of first aid measures

General information Promptly remove any clothing that becomes wet or contaminated. Move affected person to

fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Keep affected person warm

and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink.

Never give anything by mouth to an unconscious person. Consult a physician for specific

advice.

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Skin Contact Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if

irritation persists after washing.

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

minutes. Get medical attention if any discomfort continues.

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.

Inhalation Vapors may cause headache, fatigue, dizziness and nausea.

Ingestion May cause stomach pain or vomiting. Headache.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

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

Pain. Irritation and redness, followed by blurred vision.

Indication of immediate medical attention and special treatment needed

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

promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray,

fog or mist.

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.

Containers can burst violently or explode when heated, due to excessive pressure build-up. Oxides of carbon. Protection against nuisance dust must be used when the airborne

concentration exceeds 10 mg/m3.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water. Use water to keep fire

exposed containers cool and disperse vapors.

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 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.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

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Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. If leakage cannot be stopped, evacuate area. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into

containers.

Reference to other sections See Section 11 for additional information on health hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and

eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air

contamination is above an acceptable level.

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) Cleaning agent.

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

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

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 appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapor contact.

Hygiene measures Do not smoke in work area. Wash hands at the end of each work shift and before eating,

smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

When using do not eat, drink or smoke.

Respiratory protection
No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

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Information on basic physical and chemical properties

Appearance Liquid. Aerosol.

Color Clear liquid. Colorless.

Odor Slight. Ether.

Odor thresholdNo information available.pHNo information available.Melting pointNo information available.Initial boiling point and range85°C/187°F @ 101.3 kPa

Flash point 3.0°C / 37°F Method: TCC (Tag closed cup).

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.25 %(V) Upper flammable/explosive limit: 18.6 %(V)

Other flammability No information available.

Vapor pressure 0.79 kPa @ 20°C

Vapor density > 1.0

Relative density No information available.

Bulk density 0.850

Solubility(ies) Insoluble in water.

Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.ViscosityNo information available.Explosive propertiesNo information available.

Oxidising properties There are no chemical groups present in the product that are associated with oxidizing

properties.

Refractive index No information available.

Particle size No information available.

Molecular weight Not applicable.

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

Flammability Flammable aerosol.

10. Stability and reactivity

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

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Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Avoid heat, flames and other sources of ignition.

Materials to avoid Strong oxidizing agents. Strong alkalis. Strong mineral acids.

Hazardous decomposition

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors. Vapors/gases/fumes of: Silicon dioxide Formaldehyde

11. Toxicological information

Information on toxicological effects

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

Inhalation May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and

nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact Product has a defatting effect on skin. May cause skin irritation/eczema.

Eye contact Irritating to eyes.

Toxicological information on ingredients.

Methyl Siloxane

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅ vapours mg/l)

106.0

Species Rat

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

Acute toxicity - inhalation

Acute toxicity inhalation

965.0

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

965.0

12. Ecological Information

Ecotoxicity Not known.

Toxicity

Toxicity Very toxic to aquatic organisms.

Ecological information on ingredients.

Methyl Siloxane

VOC - VOC FREE FLUX REMOVER - ULTRACLEAN, AEROSOL

Toxicity Very toxic to aquatic organisms.

Acute toxicity - fish LC₅₀, 96 hours: 0.46 mg/l mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 72 hours: 0.79 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 96 hours: > 0.93 mg/l, Selenastrum capricornutum

DIMETHYL CARBONATE

Toxicity Not considered toxic to fish.

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

Acute toxicity - aquatic

invertebrates

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

Persistence and degradability

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

Ecological information on ingredients.

DIMETHYL CARBONATE

Persistence and

degradability

The product is biodegradable.

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

Persistence and

degradability

The product is not readily biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient No information available.

Mobility in soil

Mobility Not considered to be a significant hazard due to the small quantities used.

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Reuse or recycle products wherever possible.

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion.

Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal

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

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14. Transport information

UN Number

UN No. (DOT) UN1950
UN No. (TDG) UN1950
UN No. (IMDG) UN1950
UN No. (ICAO) UN1950

UN proper shipping name

Proper shipping name (DOT) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

Proper shipping name (TDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

Proper shipping name UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY (IMDG)

Proper shipping name (ICAO) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

Transport hazard class(es)

TDG class 2.1

TDG label 2.1

IMDG Class 2.1

ICAO class/division 2.1

Transport labels



Packing group

DOT pack group N/A

TDG Packing Group N/A

IMDG packing group N/A

ICAO packing group N/A

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-E, S-E

Transport in bulk according to Not applicable.

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.

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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 Chronic Fire 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-II)

Not listed.

California Directors List of Hazardous Substances

Not listed.

Massachusetts "Right To Know" List

DIMETHYL CARBONATE

Yes.

Rhode Island "Right To Know" List

Not listed.

Minnesota "Right To Know" List

Not listed.

New Jersey "Right To Know" List

DIMETHYL CARBONATE

Yes.

Pennsylvania "Right To Know" List

DIMETHYL CARBONATE

Yes.

Inventories

Canada - DSL/NDSL

Yes

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US - TSCA

All the ingredients are listed.

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

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

Revision date 1/26/2016

Revision 8

Supersedes date 12/31/2015

SDS No. AEROSOL - VOC

SDS status Approved.

Hazard statements in full H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

NFPA - health hazard Irritation, minor residual injury. (1)

Α

NFPA - flammability hazard Ignites easily. (3)

NFPA - instability hazard Normally stable. (0)

NFPA - special hazard N/A

ACA HMIS Health rating. Slight Hazard. (1)

ACA HMIS Flammability Ignites easily. (3)

rating.

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal

protection rating.

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.