

SAFETY DATA SHEET PFR POLAR FLUX REMOVER, Aerosol

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

1. Identification

Product identifier

Product name PFR POLAR FLUX REMOVER, Aerosol

Product number MCC-PFR10A, MCC-PFR10Y

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier MICROCARE LLC

Manufacturer MICROCARE LLC

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

CAGE: OATV9

Tel: + 1 800 638 0125, +1 860-827-0626

techsupport@microcare.com

Emergency telephone number

Emergency telephone INFOTRAC 1-800-535-5053 (U.S.A. and CANADA)

1-352-323-3500 (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 Flam. Aerosol 1 - H222

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 1B - H360 STOT SE 3 - H336 STOT RE 2 -

H373 Asp. Tox. 1 - H304

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

Hazard symbols







Signal word

Danger

Hazard statements H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.
H360 May damage fertility or the unborn child.

H360 May damage fertility or the unborn child H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

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

P261 Avoid breathing vapor/ spray.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.

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

EUH210 Safety data sheet available on request.

information

RCH001b For use in industrial installations or professional treatment only.

Contains ACETONE, HEXANE-norm, METHANOL

Other hazards

This product contains a substance classified as PBT.

3. Composition/information on ingredients

Mixtures

ACETONE	60-100%
CAS number: 67-64-1	

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336

HEXANE-norm 10-30%

CAS number: 110-54-3

Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Not relevant.

PFR POLAR FLUX REMOVER, Aerosol

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

10-30%

CAS number: 29118-24-9

Classification

Press. Gas, Liquefied - H280

METHANOL <1%

CAS number: 67-56-1

Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

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

Composition comments TSCA: 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

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.

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

Special hazards arising from the substance or mixture

Specific hazards 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.

Advice for firefighters

Special protective equipment

for firefighters

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

6. Accidental release measures

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. Keep out of the reach of children.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

ACETONE

Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³ Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³

HEXANE-norm

Long-term exposure limit (8-hour TWA): OSHA 500 ppm 1800 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 176 mg/m³ Sk

METHANOL

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m³ Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m³ Sk

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m³ ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration. A4 = Not Classifiable as a Human Carcinogen.

Sk = Danger of cutaneous absorption.

METHANOL (CAS: 67-56-1)

Biological limit values 15 mg/l

Exposure controls

Protective equipment





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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Liquid.

Color Clear liquid. Colorless.

Odor Acetone.

Initial boiling point and range Not determined.

Flash point ~ -20°C/-4°F Method: Closed cup.

Flammability (solid, gas) No information available.

Upper/lower flammability or

explosive limits

Not determined.

Vapor pressure Not determined.

Vapor density Not determined.

Solubility(ies) Not determined.

PFR POLAR FLUX REMOVER, Aerosol

Global Warming Potential

(GWP)

Surface tension

Volatility 100%

Volatile organic compound No information available.

Heat of vaporization (at boiling

point), cal/g (Btu/lb)

10. Stability and reactivity

Hazardous decomposition Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

products Hydrogen fluoride (HF).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 12,345.68

Acute toxicity - dermal

ATE dermal (mg/kg) 37,037.04

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 370.37

ATE inhalation (dusts/mists 61.73

mg/l)

Toxicological information on ingredients.

ACETONE

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

50,100.0

ATE inhalation (vapours

mg/l)

50,100.0

METHANOL

Acute toxicity - oral

Notes (oral LD₅o) Acute Tox. 3 - H301 Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅o) Acute Tox. 3 - H311 Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Acute Tox. 3 - H331 Toxic if inhaled.

3.0

ATE inhalation (vapours

mg/l)

5/11

PFR POLAR FLUX REMOVER, Aerosol

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 vitroBased on available data the classification criteria are not met.

Carcinogenicity

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

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.

12. Ecological information

PFR POLAR FLUX REMOVER, Aerosol

Ecological information on ingredients.

METHANOL

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

Ecological information on ingredients.

METHANOL

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

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >10000 mg/l, Daphnia magna

Persistence and degradability

Ecological information on ingredients.

ACETONE

Persistence and degradability

The product is readily biodegradable.

METHANOL

Persistence and

degradability

The degradability of the product is not known.

Bioaccumulative potential

Ecological information on ingredients.

ACETONE

Bio-Accumulative Potential No information available.

Partition coefficient log Pow: -0.024

METHANOL

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient : -0.77

Mobility in soil

Ecological information on ingredients.

METHANOL

Mobility No data available.

Other adverse effects

Ecological information on ingredients.

METHANOL

Other adverse effects None known.

PFR POLAR FLUX REMOVER, Aerosol

13. Disposal considerations

Waste treatment methods

General information 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 (IMDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

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

Transport hazard class(es)

IMDG Class 2.1 ICAO class/division 2.1

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



Special precautions for user

EmS F-D, S-U

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.

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

ACETONE

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

HEXANE-norm

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

METHANOL

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

HEXANE-norm

1.0 %

METHANOL

1.0 %

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

Acute Chronic

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

METHANOL

Developmental toxin.

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

HEXANE-norm

Present.

METHANOL

Present.

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

Not listed.

California Directors List of Hazardous Substances

ACETONE

Present.

METHANOL

Present.

Massachusetts "Right To Know" List

ACETONE

Present.

HEXANE-norm

Present.

PFR POLAR FLUX REMOVER, Aerosol

METHANOL

Present.

Rhode Island "Right To Know" List

ACETONE

Present.

HEXANE-norm

Present.

METHANOL

Present.

Minnesota "Right To Know" List

ACETONE

Present.

HEXANE-norm

Present.

METHANOL

Present.

New Jersey "Right To Know" List

ACETONE

Present.

HEXANE-norm

Present.

METHANOL

Present.

Pennsylvania "Right To Know" List

ACETONE

Present.

HEXANE-norm

Present.

METHANOL

Present.

Inventories

Canada - DSL/NDSL

Yes

US - TSCA

Yes

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 6/1/2021

Revision 36

Supersedes date 12/6/2019

SDS No. AEROSOL - PFR

Hazard statements in full H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child.

H361f Suspected of damaging fertility. H370 Causes damage to organs .

H373 May cause damage to organs through prolonged or repeated exposure.