

# SAFETY DATA SHEET HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

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

#### 1. Identification

Product identifier

Product name HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

Product number MCC-SPRL, MCC-SPRG, MCC-SPRD, MCC-SPRGL, MCC-SPRGG

Synonyms; trade names "SPR - SUPRCLEAN Nonflammable Flux Remover"

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 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 Not Classified

Health hazards Acute Tox. 4 - H332 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H336

Physicochemical 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).

Label elements

Hazard symbols





Signal word Warning

Hazard statements H332 Harmful if inhaled.

H319 Causes serious eye irritation. H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

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

P308+P313 If exposed or concerned: Get medical advice/ attention.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/ doctor if you feel unwell.

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

lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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 trans-1,2-DICHLOROETHYLENE, METHANOL, ISOBUTYL METHYL KETONE

#### Other hazards

Harmful if inhaled

### 3. Composition/information on ingredients

### **Mixtures**

trong 4.2 DICULODOETHYLENE	60 1000/
trans-1,2-DICHLOROETHYLENE	60-100%

CAS number: 156-60-5

## Classification

Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 STOT SE 3 - H336 Not relevant.

## 1,1,1,2,2,3,4,5,5,5-decafluoropentane

10-30%

CAS number: 138495-42-8

## Classification

Not relevant.

Ethanol 5-10%

CAS number: 64-17-5

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319

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

ETHYL ACETATE <1%

CAS number: 141-78-6

Classification

Flam. Liq. 2 - H225

Eye Irrit. 2A - H319

STOT SE 3 - H336

ISOBUTYL METHYL KETONE <1%

CAS number: 108-10-1

Classification

Flam. Liq. 2 - H225

Acute Tox. 4 - H332

Eye Irrit. 2A - H319

Carc. 2 - H351

STOT SE 3 - H335

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

personnel.

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

**Inhalation** 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. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get

medical attention.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not

induce vomiting unless under the direction of medical personnel.

**Skin Contact** Rinse with water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Immediately flush eyes with plenty

of water. Get medical attention, if irritation persists.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

#### 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** A single exposure may cause the following adverse effects: Headache. Exhaustion and

weakness.

IngestionNo specific symptoms known.Skin contactNo specific symptoms known.

Eye contact Irritating to eyes.

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

#### 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media The product is not flammable. 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.

This product is toxic.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Toxic

gases or vapors.

## Advice for firefighters

Protective actions during

firefighting

Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Avoid breathing fire gases or vapors. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. 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

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

#### 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. Avoid inhalation of vapors and spray/mists. Use suitable respiratory

protection if ventilation is inadequate.

**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. Provide adequate ventilation. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. 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.

**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. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken

packages without protective equipment. Do not reuse empty containers.

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.

**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.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

## trans-1,2-DICHLOROETHYLENE

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m<sup>3</sup>

#### 1,1,1,2,2,3,4,5,5,5-decafluoropentane

No information available that would effect occupational exposure limit values.

#### Ethanol

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³

А3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³

#### **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/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>

#### ISOBUTYL METHYL KETONE

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 82 mg/m³ Short-term exposure limit (15-minute): ACGIH 75 ppm 307 mg/m³ A3

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 410 mg/m³
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.

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

Biological limit values 15 mg/l

#### **Exposure controls**

#### Protective equipment



Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. 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 Clear liquid.

Color Colorless.

Odor Slight. Ether.

Odor threshold

PH

No information available.

41°C/106°F @ 101.3 kPa

**Flash point** The product is not flammable.

Evaporation rate No information available.

Evaporation factor No information available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 14.4 %(V) Lower flammable/explosive limit: 5.0 %(V)

Other flammability The product is not flammable.

Vapor pressure 37.9 kPa @ 20°C

Vapor density 3.4

Relative density 1.26 g/cc

Bulk density No information available.

Solubility(ies) 0.3 % water @ 20°C

Partition coefficient No information available.

Auto-ignition temperature No information available.

Decomposition Temperature No information available.

**Viscosity** 0.48 cP @ 20°C

**Explosive properties**No information available.

Oxidizing properties Not known.

**Global Warming Potential** 

(GWP)

Surface tension

Refractive index No information available.

Particle size No information available.

Molecular weight Not applicable.

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound This product contains a maximum VOC content of 1080 g/l.

Heat of vaporization (at boiling

point), cal/g (Btu/lb)

## 10. Stability and reactivity

**Reactivity** See the other subsections of this section for further details.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or

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

### 11. Toxicological information

## Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 7,936.51

Acute toxicity - dermal

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

**ATE dermal (mg/kg)** 119,047.62

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Acute Tox. 4 - H332 Harmful if inhaled.

ATE inhalation (vapours mg/l) 15.91

ATE inhalation (dusts/mists

mg/l)

198.41

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

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**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 -

oproductive toxions

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**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** A single exposure may cause the following adverse effects: Headache. Exhaustion and

weakness.

**Ingestion** No specific symptoms known.

**Skin Contact** No specific symptoms known.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

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

Toxicological information on ingredients.

trans-1,2-DICHLOROETHYLENE

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

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

7,902.0

Species Rat

**ATE oral (mg/kg)** 7,902.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

Species Rat

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

**ATE dermal (mg/kg)** 5,000.0

Acute toxicity - inhalation

ATE inhalation (vapours

mg/l)

11.0

Skin corrosion/irritation

**Skin corrosion/irritation** Prolonged and frequent contact may cause redness and irritation.

Animal data Slightly irritating. Rabbit

Serious eye damage/irritation

Serious eye Supplier's information. Rabbit 500 mg 24 hours Causes mild skin irritation.

damage/irritation

Respiratory sensitization

**Respiratory sensitization** No specific test data are available.

Skin sensitization

**Skin sensitization** No specific test data are available.

Germ cell mutagenicity

**Genotoxicity - in vitro**This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo**This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No specific test data are available.

Specific target organ toxicity - single exposure

**STOT - single exposure** NOAEL Not available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 16 mg/l, 90 days

Target organs Endocrine system Liver Kidneys Bladder Respiratory tract

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute toxicity - oral

Acute toxicity oral (LD₅₀

5,000.0

114.0

mg/kg)

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

**Species** Rat

ATE inhalation (vapours

mg/l)

114.0

Skin corrosion/irritation

Animal data Not irritating. Rabbit

Human skin model test Data lacking.

Extreme pH Not applicable. Not corrosive to skin.

Serious eye damage/irritation

Serious eye

Not irritating. Rabbit

damage/irritation

Respiratory sensitization

Respiratory sensitization Data lacking.

Skin sensitization

Skin sensitization Not sensitizing. - Guinea pig: Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

IARC carcinogenicity Not listed.

Not listed. NTP carcinogenicity

**OSHA Carcinogenicity** Not listed.

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies.

**Skin Contact** 

Skin irritation should not occur when used as recommended. May cause defatting

of the skin but is not an irritant.

Eye contact May cause eye irritation.

Acute and chronic health

hazards

There is no evidence that the product can cause cancer.

**METHANOL** 

Acute toxicity - oral

Acute Tox. 3 - H301 Toxic if swallowed. Notes (oral LD₅₀)

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD50) Acute Tox. 3 - H311 Toxic in contact with skin.

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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

mg/l)

3.0

ATE inhalation (dusts/mists mg/l)

0.5

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** 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.

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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 1.5

(dusts/mists mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

### 12. Ecological information

## Ecological information on ingredients.

#### trans-1,2-DICHLOROETHYLENE

**Ecotoxicity** Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

1,1,1,2,2,3,4,5,5,5-decafluoropentane

**Ecotoxicity** It is unlikely that the substance will dissolve in water in amounts big enough to have

a toxic effect on fish and daphnies.

**METHANOL** 

**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-1,2-DICHLOROETHYLENE

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 135 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 220 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

LC<sub>50</sub>, 72 hours: 36.36 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 48 hours: 110,000 mg/l, Daphnia magna

life stage

## 1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 13.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 11.7 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: >120 mg/l, Algae

**METHANOL** 

**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

EC₅o, 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-1,2-DICHLOROETHYLENE

**Biodegradation** Not readily biodegradable.

Method: OECD Test Guideline 301D

**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-1,2-DICHLOROETHYLENE

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

this product.

Partition coefficient log Pow: 2.06

1,1,1,2,2,3,4,5,5,5-decafluoropentane

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

this product.

Partition coefficient Pow: 2.7

**METHANOL** 

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient : -0.77

Mobility in soil

## HEAVY DUTY FLUX REMOVER - SUPRCLEAN, BULK

**Mobility** No data available.

Ecological information on ingredients.

#### trans-1,2-DICHLOROETHYLENE

**Mobility** The product has poor water-solubility.

**METHANOL** 

Mobility No data available.

Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

#### **METHANOL**

Other adverse effects None known.

#### 13. Disposal considerations

### Waste treatment methods

General information 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.

**Disposal methods**Do not empty into drains. 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. Incineration or landfill should only be considered when recycling is

not feasible.

## 14. Transport information

General Not regulated. The product is not covered by international regulations on the transport of

dangerous goods (IMDG, IATA, DOT).

**UN Number** 

UN proper shipping name

Proper shipping name (TDG) Not Hazardous Not Regulated

Proper shipping name (IMDG) Not Hazardous Not Regulated

Proper shipping name (ICAO) Not Hazardous Not Regulated

Proper shipping name (DOT) Not Hazardous Not Regulated

Transport hazard class(es)

**Transport Labels** 

(International)

Not applicable., No information required.

Packing group

Packing group (International) No information required.

#### Special precautions for user

Not applicable. No information required.

### 15. Regulatory information

#### **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:

ETHYL ACETATE

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

**METHANOL** 

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

ISOBUTYL METHYL KETONE

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

trans-1,2-DICHLOROETHYLENE

Final CERCLA RQ: 1000(454) pounds (Kilograms)

#### 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:

**METHANOL** 

1.0 %

ISOBUTYL METHYL KETONE

1.0 %

### **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

The following ingredients are listed or exempt:

**METHANOL** 

Developmental toxin.

ISOBUTYL METHYL KETONE

Carcinogen and developmental toxin.

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

The following ingredients are listed or exempt:

**METHANOL** 

ISOBUTYL METHYL KETONE

#### 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:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

trans-1,2-DICHLOROETHYLENE

### Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

trans-1,2-DICHLOROETHYLENE

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

The following ingredients are listed or exempt:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

### Minnesota "Right To Know" List

The following ingredients are listed or exempt:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

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

The following ingredients are listed or exempt:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

## Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

ETHYL ACETATE

**METHANOL** 

ISOBUTYL METHYL KETONE

trans-1,2-DICHLOROETHYLENE

## Inventories

#### Canada - DSL/NDSL

DSL

1,1,1,2,2,3,4,5,5,5-decafluoropentane

trans-1,2-DICHLOROETHYLENE

#### **US-TSCA**

All of the ingredients of this product are TSCA listed. 1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE (CAS# 138495-42-8) is controlled by TSCA Section 5, Significant New Use

Rule (SNUR; 40 CFR 721.5645) The approved uses are: precision and general cleaning, carrier fluid, displacement drying, printed circuit board cleaning, particulate removal and film cleaning, process medium, heat transfer fluid (dielectric and non-dielectric), and test fluid. Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirements if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

#### 16. Other information

Abbreviations and acronyms used in the safety data sheet TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service. ATE: Acute toxicity estimate.

LC₅o: Lethal concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).

EC₅o: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative.

Classification abbreviations

and acronyms

Acute Tox. = Acute toxicity

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Training advice Only trained personnel should use this material.

Revision date 5/25/2021

Revision 47

5/25/2021 Supersedes date

SDS No. **BULK - SPR** 

Hazard statements in full H225 Highly flammable liquid and vapor.

> 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.

H351 Suspected of causing cancer. 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.