SAFETY DATA SHEET
Debris Destroyer Fiber Cleaning Pen

1. Identification

Product identifier
Product name Debris Destroyer Fiber Cleaning Pen
Product number FCC3-00-PEN1

Recommended use of the chemical and restrictions on use
Application Cleaning agent.

Details of the supplier of the safety data sheet
Supplier AFL
16 Eastgate Park
Belmont, NH 03220
United States of America
CAGE: 0NL21
Tel: +1 603-528-7780
www.AFLglobal.com

Manufacturer MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800 638 0125, +1 860-827-0626
Fax: +1 860-827-8105
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 Flam. Liq. 1 - H224
Health hazards Eye Irrit. 2A - H319 Muta. 1B - H340 Carc. 1B - H350 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

Pictogram

1/12
Debris Destroyer Fiber Cleaning Pen

Signal word
Danger

Hazard statements
H224 Extremely flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.

Precautionary statements
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
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.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
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
NAPHTHA (PETROLEUM), LIGHT ALKYLATE; LOW BOILING POINT MODIFIED NAP

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

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>NAPHTHA (PETROLEUM), LIGHT ALKYLATE; LOW BOILING POINT MODIFIED NAP</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64741-66-8</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Muta. 1B - H340
Carc. 1B - H350
Asp. Tox. 1 - H304

<table>
<thead>
<tr>
<th>ETHANOL</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64-17-5</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Flam. Liq. 2 - H225
Debris Destroyer Fiber Cleaning Pen

<table>
<thead>
<tr>
<th>PROPan-2-OL</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>ETHYL ACETATE</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 141-78-6</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

**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.

**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**
Debris Destroyer Fiber Cleaning Pen

Notes for the doctor
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. 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

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.

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.

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)
Cleaning agent.

Reference to other sections
Store away from incompatible materials (see Section 10).
# Debris Destroyer Fiber Cleaning Pen

## 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

**ETHANOL**

- **Short-term exposure limit (15-minute):** ACGIH 1000 ppm  1880 mg/m³  
  A3
- **Long-term exposure limit (8-hour TWA):** OSHA 1000 ppm  1900 mg/m³  

**PROPAN-2-OL**

- **Long-term exposure limit (8-hour TWA):** OSHA 400 ppm  980 mg/m³  
- **Long-term exposure limit (8-hour TWA):** ACGIH 200 ppm  492 mg/m³  
- **Short-term exposure limit (15-minute):** ACGIH 400 ppm  984 mg/m³  
  A4

**ETHYL ACETATE**

- **Long-term exposure limit (8-hour TWA):** ACGIH 400 ppm  1440 mg/m³  
- **Long-term exposure limit (8-hour TWA):** OSHA 400 ppm  1400 mg/m³  

ACGIH = American Conference of Governmental Industrial Hygienists.  
OSHA = Occupational Safety and Health Administration.  
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
A4 = Not Classifiable as a Human Carcinogen.

### Additional Occupational Exposure Limits

#### Ingredient comments

<table>
<thead>
<tr>
<th>Ingredient comments</th>
<th>WEL = Workplace Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (CAS: 64-17-5)</td>
<td></td>
</tr>
</tbody>
</table>

### Exposure controls

#### Protective equipment

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Provide adequate general and local exhaust ventilation.</th>
</tr>
</thead>
</table>

#### 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 appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

#### Hygiene measures

Do not smoke in work area. Wash 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.
Debris Destroyer Fiber Cleaning Pen

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Odor</td>
</tr>
<tr>
<td>Odor threshold</td>
</tr>
<tr>
<td>pH</td>
</tr>
<tr>
<td>Melting point</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
</tr>
<tr>
<td>Flash point</td>
</tr>
<tr>
<td>Evaporation rate</td>
</tr>
<tr>
<td>Evaporation factor</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
</tr>
<tr>
<td>Other flammability</td>
</tr>
<tr>
<td>Vapor pressure</td>
</tr>
<tr>
<td>Vapor density</td>
</tr>
<tr>
<td>Relative density</td>
</tr>
<tr>
<td>Bulk density</td>
</tr>
<tr>
<td>Solubility(ies)</td>
</tr>
<tr>
<td>Partition coefficient</td>
</tr>
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<td>Auto-ignition temperature</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
</tr>
<tr>
<td>Viscosity</td>
</tr>
<tr>
<td>Explosive properties</td>
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<tr>
<td>Refractive index</td>
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<tr>
<td>Particle size</td>
</tr>
<tr>
<td>Molecular weight</td>
</tr>
<tr>
<td>Saturation concentration</td>
</tr>
<tr>
<td>Critical temperature</td>
</tr>
<tr>
<td>Volatile organic compound</td>
</tr>
<tr>
<td>Flammability</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

| Stability | Stable at normal ambient temperatures. |
Debris Destroyer Fiber Cleaning Pen

**Possibility of hazardous reactions**
Will not polymerize.

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

**Materials to avoid**

**Hazardous decomposition products**

### 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.

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

#### Eye contact
Irritating to eyes.

### Toxicological information on ingredients.

#### ETHANOL

<table>
<thead>
<tr>
<th>Acute toxicity - Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity inhalation</td>
</tr>
<tr>
<td>(LC₅₀ vapours mg/l)</td>
</tr>
<tr>
<td>ATE inhalation (vapours</td>
</tr>
<tr>
<td>mg/l)</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>IARC carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC Group 1   Carcinogenic to humans.</td>
</tr>
</tbody>
</table>

#### PROPAN-2-OL

<table>
<thead>
<tr>
<th>Acute toxicity - Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity inhalation</td>
</tr>
<tr>
<td>(LC₅₀ vapours mg/l)</td>
</tr>
<tr>
<td>ATE inhalation (vapours</td>
</tr>
<tr>
<td>mg/l)</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>IARC carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC Group 3   Not classifiable as to its carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP carcinogenicity</th>
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</thead>
<tbody>
<tr>
<td>Not listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not listed.</td>
</tr>
</tbody>
</table>

### Ecological Information

#### Ecological information on ingredients.

**ETHANOL**
Debris Destroyer Fiber Cleaning Pen

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

**Acute toxicity - aquatic invertebrates**  
EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna

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

**PROPAN-2-OL**

**Acute toxicity - fish**  
LC₅₀, 96 hours: 9,640 mg/l, Fish

**Acute toxicity - aquatic invertebrates**  
EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**  
IC₅₀, 72 hours: >2,000 mg/l, Algae

**Persistence and degradability**

**Ecological information on ingredients.**

**ETHANOL**

**Bioaccumulative potential**

**Partition coefficient**  
No information available.

**Ecological information on ingredients.**

**ETHANOL**

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

**Partition coefficient**  
No information available.

**PROPN-2-OL**

**Partition coefficient**  
0.05

**Mobility in soil**

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

**Ecological information on ingredients.**

**ETHANOL**

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

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.

14. Transport information
Debris Destroyer Fiber Cleaning Pen

UN Number
UN No. (IMDG) 1993
UN No. (ICAO) 1993

UN proper shipping name
Proper shipping name (TDG) EXCEPTED QUANTITIES
Proper shipping name (IMDG) UN1993, FLAMMABLE LIQUID, N.O.S. (Aliphatic hydrocarbon, Aliphatic solvent), 3, PG II (*Dangerous goods in excepted quantities*)
Proper shipping name (ICAO) UN1993, FLAMMABLE LIQUID, N.O.S. (Aliphatic hydrocarbon, Aliphatic solvent), 3, PG II (*Dangerous goods in excepted quantities*)
Proper shipping name (DOT) EXCEPTED QUANTITIES

Transport hazard class(es)
IMDG Class 3
ICAO class/division 3

Packing group
IMDG packing group II
ICAO packing group II

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
EmS F-E, S-E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
Not listed.

SARA 313 Emission Reporting
Not listed.

CAA Accidental Release Prevention
Not listed.
Debris Destroyer Fiber Cleaning Pen

SARA (311/312) Hazard Categories
Acute
Chronic
Fire

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)
PROPAN-2-OL
Present.

California Air Toxics "Hot Spots" (A-II)
Not listed.

California Directors List of Hazardous Substances
ETHYL ACETATE
Present.
ETHANOL
Present.
PROPAN-2-OL
Present.

Massachusetts "Right To Know" List
ETHYL ACETATE
Present.
ETHANOL
Present.
PROPAN-2-OL
Present.

Rhode Island "Right To Know" List
ETHYL ACETATE
Present.
ETHANOL
Present.
PROPAN-2-OL
Present.

Minnesota "Right To Know" List
ETHYL ACETATE
Present.
ETHANOL
Present.
PROPAN-2-OL
Present.
Debris Destroyer Fiber Cleaning Pen

New Jersey "Right To Know" List

ETHYL ACETATE
Present.

ETHANOL
Present.

PROPAN-2-OL
Present.

Pennsylvania "Right To Know" List

ETHYL ACETATE
Present.

ETHANOL
Present.

PROPAN-2-OL
Present.

Inventories

Canada - DSL/NDSL
Yes

US - TSCA
Yes

Australia - AICS

PROPAN-2-OL
Yes

Japan - MITI

PROPAN-2-OL

China - IECSC

PROPAN-2-OL

Philippines - PICCS

PROPAN-2-OL
Yes

16. Other information

Revision comments

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

Revision date
8/9/2017

Revision
24

Supersedes date
8/8/2017

SDS No.
BULK - FCC3-00-PEN1
Debris Destroyer Fiber Cleaning Pen

Hazard statements in full

H224 Extremely flammable liquid and vapor.
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H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.

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.