This safety data sheet complies with the requirements of:
Classification according to Directive 67/548/EEC or 1999/45/EC

Issue Date: 2009-01-09  Revision Date: 2015-04-14  Revision Number: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name DEE FO® XRM-1537A
Product code U11537A

1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Anti-foaming agent (defoamer)
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet
Manufacturer Munzing - Ultra Additives LLC.
1455 Broad Street
Bloomfield NJ 07003
United States
Email: info@munzing.us
Phone: 1-973-279-1306

Supplier Münzing Chemie GmbH
Münzingstrasse 2
74232 Abstatt
Germany
Email: info@munzing.com
Phone: +49 (0) 7131/987-0

1.4. Emergency telephone number
Emergency telephone CHEMTREC (24 hrs - for spill, leak or transportation incidents):
US: 1-800-424-9300
non-US: 1-703-527-3887
EU: +49 761 19240 (VIZ Freiburg)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC
Symbol
Not dangerous

*Full text of R-phrases: see section 16*

2.2. Label Elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.3. Other hazards

No information available.

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**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

**Chemical nature of the product**

Emulsion of petroleum distillate and aqueous solution.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic</td>
<td>265-159-2</td>
<td>64742-56-9</td>
<td>5 - 10</td>
<td>-</td>
<td>Carc. 1B (H350) L</td>
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<td>64742-65-0</td>
<td>10 - 30</td>
<td>Carc. 1B (H350) L</td>
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</table>

*Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16*

*This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]
Full text of H- and EUH-phrases: see section 16*

*Note*

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I.

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**Section 4: FIRST AID MEASURES**

4.1. Description of first aid measures

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation**

Move victim to fresh air.

**Ingestion**

Clean mouth with water. If swallowed, DO NOT induce vomiting.

**Self-Protection of the First Aider**

Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

**Most important symptoms and effects**

No information available.
Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media Cool containers / tanks with water spray.

5.2. Special hazards arising from the substance or mixture
Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and vapours.

5.3. Advice for firefighters
Advice for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions Use personal protection equipment. Avoid contact with skin, eyes and clothing.

Protective precautions Use personal protection equipment.

6.2. Environmental precautions
Environmental Precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for Containment Prevent spreading over a wide area (e.g. by containment or oil barriers). Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Methods for Clean-Up Prevent product from entering drains. Pick up and transfer to properly labelled containers.

6.4. Reference to other sections
Reference to other sections See Sections 5 & 7 for additional information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing.

7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions Keep containers tightly closed in a cool, well-ventilated place.
7.3. Specific end use(s)
Specific Uses No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.

Skin protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. PVC. Neoprene. PVA.

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
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<tr>
<td>Appearance</td>
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<td>Odor</td>
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<td>Odor threshold</td>
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<td>Melting point/freezing point</td>
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<td>No information available</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Evaporation rate</td>
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<td>Flammability (solid, gas)</td>
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<td>No information available</td>
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<tr>
<td>Flammability Limit in Air</td>
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<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
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<tr>
<td>Lower flammability limit</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor density</td>
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<td>Water Solubility</td>
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<td>Partition coefficient: n-octanol/water</td>
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<td>No information available</td>
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<td>Autoignition temperature</td>
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<td>Decomposition temperature</td>
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<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
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</table>

Explosive properties

No information available.
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity
Stable under normal conditions.

10.2. Chemical stability
Chemical Stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

10.4. Conditions to avoid
Conditions to Avoid
Heat, flames and sparks.

10.5. Incompatible materials
Incompatible Materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
Hazardous decomposition products
Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute Toxicity

Product Information

Eyes
Contact with eyes may cause irritation. Avoid contact with eyes.

Skin
May cause skin irritation and/or dermatitis. Avoid contact with skin.

Inhalation
Health injuries are not known or expected under normal use.

Ingestion
Health injuries are not known or expected under normal use.

Unknown acute toxicity
10.99791565% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)  No data available
ATEmix (dermal)  16,149.00 mg/kg
ATEmix (inhalation-dust/mist)  No data available

Skin Corrosion/Irritation  No information available.
Eye damage/irritation  No information available.
Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Discharge into the environment must be avoided.

Unknown Aquatic Toxicity

4.03779% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Component</th>
<th>Algae</th>
<th>Fish</th>
<th>Daphnia magna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic 64742-56-9</td>
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<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
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<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0</td>
<td>-</td>
<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation/Accumulation

Not likely to bioaccumulate.

12.4. Mobility in soil

Mobility in Environmental Media

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

Contain and dispose of waste according to local regulations.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Do not burn, or use a cutting torch on, the empty drum.

Waste codes / waste designations according to EWC / AVV

Not applicable.
Section 14: TRANSPORT INFORMATION

ADR/RID
Not regulated

IMDG/IMO
Not regulated

IATA
Not regulated

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

US TSCA
Complies

Australia (AICS)
Complies

Canada (DSL)
Complies

China (IECSC)
Complies

Europe (EINECS/ELINCS/NLP)
Complies

Japan (METI)
Complies

South Korea (KECL)
Contact manufacturer

Philippines (PICCS)
Contact manufacturer

New Zealand
Contact manufacturer

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

WGK Classification (VwVwS)
Water endangering class = 1 (self estimation)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3
No information available
**Full text of H-Statements referred to under section 3**

H350 - May cause cancer if swallowed

**Legend**

SVHC: Substances of Very High Concern for Authorization:

- TWA - TWA (time-weighted average)
- STEL - STEL (Short Term Exposure Limit)
- Ceiling - Maximum limit value
- * - Skin designation

**Classification procedure** Minimum classification

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**Issue Date:** 2009-01-09  
**Revision Date:** 2015-04-14  
**Reason for revision** Update to Format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.*

End of Safety Data Sheet