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## SAFETY DATA SHEET

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

- Product Name: Miracor 610
- Product Part Number: RUS012
- UFI: For Industrial Use Only

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Rust preventative, Industrial Use
- Use advised against: Do not use in any other application., For specific application information consult Technical Data Sheet

#### 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Aztec Oils Europe BV
- Address of Supplier: Centraleweg 11-E  
4931 NA  
Geertruidenberg  
THE NETHERLANDS
- Telephone: +31 (0)162-51 93 95  
Mon - Fri 08:30 - 17:00
- Email: Info@aztecoilseurope.nl
- Name of Manufacturer: Aztec Oils Ltd
- Address of Manufacturer: Intake Road,  
Bolsover Business Park,  
Bolsover,  
Derbyshire,  
S44 6BB,  
UK
- Telephone: +44 (0)1246 823007  
Mon-Thurs 08:00 - 17:00  
Fri 08:00 - 16:00, GMT/BST
- Email: Technical@aztecoils.co.uk

#### 1.4 Emergency telephone number

- Emergency Telephone: For UK and Northern Ireland Tel: 999 or 101., For ROI dial 999 or 112
- Official body: National Poisons Information Service
- Country: United Kingdom & Northern Ireland
- Emergency number: (0344 892 0111) HEALTHCARE PROFESSIONALS ONLY
- Official body: National Poisons Information Centre
- Country: Republic of Ireland

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking (....)**

- Emergency number: +353 (1) 809 2566 HEALTHCARE PROFESSIONALS ONLY

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**SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

- CLP: Asp. Tox. 1

2.2 Label elements



- Signal Word: Danger

2.2.1 Hazard statements

May be fatal if swallowed and enters airways (H304).  
Repeated exposure may cause skin dryness or cracking (EUH066).

2.2.2 Precautionary statements

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting (P301+P310+P331)  
If medical advice is needed, have product container or label at hand (P101).  
Keep out of reach of children (P102).  
Store locked up (P405).  
Dispose of contents and/or container in accordance with local/ national regulations (P501).

2.3 Other hazards

- This product is not identified as a PBT/vPvB according to current criteria.
- Vapours may form explosive mixtures with air. The material can accumulate static charge and can therefore cause electrical ignition.
- Contains: Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

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**SECTION 3: Composition/information on ingredients**

3.2 Mixtures

3.2.1 Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

CAS Number:	Not available
EC Number:	926-141-6
REACH Registration Number:	01-2119456620-43
Index No.:	Not applicable
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Concentration:	60 - <90%

### SECTION 3: Composition/information on ingredients (....)

H Statements: H304  
Categories: Asp. Tox. 1

#### 3.2.2 Highly refined mineral oil

CAS Number: Various see below  
EC Number: Various see below  
REACH Registration Number: Various see below  
Index No.: Various see below  
Specific Concentration Limits: Not applicable  
M factor: Not applicable  
Concentration: 20 - 35%  
H Statements: None  
Categories: Not Classified

Contains a mixture of petroleum derived mineral oils that contain <3% DMSO according to IP346

Base oil may contain one or more of the following: 101316-70-5, 309-875-6, 101316-71-6, 309-876-1 101316-72-7, 309-877-7 RRN 01-2119489969-06/ 64741-88-4, 265-090-8, RRN 01-2119488706-23/, 64741-89-5, 265-091-3, RRN 01-2119487067-30/ 64741-95-3, 265-096-0, RRN 01-2119487081-40/ 64741-96-4, 265-097-6, RRN 01-2119483621-38/ 64742-01-4, 265-101-6, RRN 01-2119488707-21/ 64742-45-6, 265-147-7/ 64742-52-5, 265-155-0, RRN 01-2119467170-45, 649-465-00-7/ 64742-53-6, 265-156-6, RRN 01-2119480375-34, 649-466-00-2/ 64742-54-7, 265-157-1, RRN 01-2119484627-25, 649-461-00-8/ 64742-56-9, 265-159-2, RRN 01-2119480132-48, 649-469-00-9/ 64742-57-0, 265-160-8/ 01-2119489287-22/, 64741-88-4, 265-090-8, RRN 01-119488706-23 / 64742-62-7, 265-166-0 / RRN 01-2119480472-38/ 64742-65-0, 265-169-7, RRN 01-2119471299-27, 649-474-00-6/ 64742-70-7, 265-174-4, RRN 01-2119487080-42 / 68037-01-4, 500-183-1, RRN 01-2119486452-34 /, 111-66-0, 203-893-7, RRN 01-2119486877-14, 01-2119409094-47 / 72623-85-9, 276-736-3, RRN 01-2119555262-43/ 72623-86-0, 276-737-9, RRN 01-2119474878-16, 649-482-00-x/ 72623-87-1, 276-738-4, RRN 01-2119474889-13, 649-483-00-5/ 74869-22-0 , 278-012-2, RRN 01-2119495601-36, 649-484-00-0.

#### 3.2.3 2-butoxyethanol

CAS Number: 111-76-2  
EC Number: 203-905-0  
REACH Registration Number: 01-2119475108-36  
Index No.: 603-014-00-0  
Specific Concentration Limits: Not applicable  
M factor: Not applicable  
Concentration: 0.5 - 3%  
H Statements: H302, H315, H319, H332  
Categories: Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Acute Tox. 4

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### 4.1.1 Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes

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**SECTION 4: First aid measures (....)**

difficult.

**4.1.2 Contact with eyes**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses (if easy to do so). Get medical attention.

**4.1.3 Contact with skin**

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

**4.1.4 Ingestion**

Aspiration hazard

DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately!

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

**4.2.1 Ingestion**

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May cause nausea and diarrhoea.

**4.2.2 Contact with eyes**

May cause slight irritation. The following symptoms may occur: erythema (redness), Pain.

**4.2.3 Contact with skin**

May cause defatting of the skin. May cause skin dryness and irritation.

**4.2.4 Inhalation**

May cause respiratory irritation. The following symptoms may occur: Cough, Dizziness, Headache.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment should be symptomatic and directed to relieving any effects.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.
- Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

**5.2 Special hazards arising from the substance or mixture**

- If heated or in cases of fire, pressure in a vessel will increase and container may burst.
- Combustion products may include Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**5.3 Advice for firefighters**

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## SECTION 5: Firefighting measures (....)

- Promptly isolate and secure the scene, remove all unnecessary and untrained persons from the vicinity if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European Standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

Spillage causes slippery surface

### 6.1 Personal precautions, protective equipment and emergency procedures

- Do not breathe vapour/fumes
- Shut off all ignition sources
- Stop any leak if it is safe to do so.
- Absorb with sand or other inert absorbent. Collect in containers and seal securely.
- Adopt best manual handling considerations when handling, carrying and dispensing.
- Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

### 6.2 Environmental precautions

- Do not allow product to enter drains. Prevent further spillage if safe. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

- Stop any leak if it is safe to do so.
- Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
- Dispose of in compliance with all local and national regulations.

### 6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 5 for firefighting measures.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 12 for environmental precautions.
- See Section 13 for additional waste treatment information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Use appropriate personal protective equipment.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## SECTION 7: Handling and storage (....)

- Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be earthed. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
- Dispose of contents and/or container in accordance with local/ national regulations.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations.
- Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
- Earth container and transfer equipment to eliminate sparks from static electricity.
- Store locked up.

### 7.3 Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Substances

Chemical Name	WEL (short term)	WEL (long term)	STEL	WEL
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics		1200 mg/m <sup>3</sup>		1200 mg/m <sup>3</sup> (IE)
2-butoxyethanol	246 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	246 mg/m <sup>3</sup> (IE)	98 mg/m <sup>3</sup> (IE)
Highly refined mineral oil		5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup> (IE)

- If this product contains ingredients with exposure limits, personal and/or workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### Substances

Chemical Name	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; oral, long term systemic effects)
2-butoxyethanol	98 mg/m <sup>3</sup>		
Highly refined mineral oil	2.73 mg/m <sup>3</sup>	0.97 mg/kg bw/day	

## SECTION 8: Exposure controls/personal protection (....)

### Substances

Chemical Name	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; oral, long term systemic effects)
2-butoxyethanol	59 mg/m <sup>3</sup>		6.3 mg/kg bw/day

### 8.2 Exposure controls

- A full risk assessment should be undertaken before handling this material.



- Engineering Controls
- Appropriate Engineering Control:  
All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.  
No special requirements under ordinary conditions of use and with adequate ventilation.
- Eye Protection:  
If contact is likely, safety glasses are recommended.
- Hand Protection  
As specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled and the conditions of work and use. Recommended: Nitrile or other suitable glove. Breakthrough time represents how long a glove can be expected to provide effective permeation resistance. Always consult with your glove supplier for up-to-date technical information on breakthrough.
- Skin and Body Protection  
Wear appropriate clothing as protection against splashing.  
In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
- Hygiene Measures  
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking.  
Routinely wash work clothing and protective equipment to remove contaminants.
- Respiratory Protection  
No Special requirements under ordinary conditions of use and with adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Straw, brown
- Physical state: Liquid

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**SECTION 9: Physical and chemical properties (....)**

- Odour: Characteristic odour
- Density: 0.832 at 15°C
- Viscosity: 5.4 cSt @ 40 °C
- Freezing point/Range: No information available
- Boiling Point/Range: 190 - 280°C
- Flashpoint: >63°C
- Autoignition Temperature: >200°C

9.2 Other information

- This product contains a maximum VOC content of 869 mg/kg
- The figures in this section are for guidance only please always use them in conjunction with the technical data sheet.

**SECTION 10: Stability and reactivity**

10.1 Reactivity

- No specific test data available for this product. Refer to, conditions to avoid and incompatible material sections for additional information.

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- None under normal processing.
- Hazardous polymerisation does not occur.

10.4 Conditions to avoid

- Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

- Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced

**SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Substances

Chemical Name	LC <sub>50</sub> (inhalation, rat)	LD <sub>50</sub> (dermal, rabbit)	LD <sub>50</sub> (oral, rat)

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### SECTION 11: Toxicological information (....)

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics	>5000 mg/m <sup>3</sup>	>5000 mg/kg bw	>5000 mg/kg bw
2-butoxyethanol			1300 mg/kg bw
Highly refined mineral oil	5000 mg/l	2000 mg/kg bw	5000 mg/kg bw

- Aspiration hazard fluid can enter the lungs and cause damage (chemical pneumonitis, possibly fatal).
- Inhalation may cause irritation to the respiratory tract.
- Ingestion: May cause nausea and diarrhoea.
- Skin contact: Defatting to the skin. May cause skin dryness and irritation.
- Eye contact: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

- Not applicable

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Substances

Chemical Name	LC <sub>50</sub> (fish)	EC <sub>50</sub> (daphnia)	IC <sub>50</sub> (algae)
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics	>1000 mg/l (96 hr)	>1000 mg/l (48 hr)	>1000 mg/l (72 hr)
2-butoxyethanol	1474 mg/l (96 hr)	690 mg/l (48 hr)	623 mg/l (72 hr)
Highly refined mineral oil	>100 mg/l (96 hr)	>10000 mg/l (48 hr)	>100 mg/l (72 hr)

#### 12.2 Persistence and degradability

- Expected to be inherently biodegradable.

12.2.1 Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics  
 Not readily biodegradable

12.2.2 2-butoxyethanol  
 Readily biodegradable.

12.2.3 Highly refined mineral oil  
 Inherently biodegradable.

#### 12.3 Bioaccumulative potential

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## SECTION 12: Ecological information (....)

- The product has limited potential for bioaccumulation. The product is not expected to bioaccumulate through food chains in the environment.

### 12.4 Mobility in soil

- Spillages may penetrate the soil causing ground water contamination.
- Immiscible with water.

### 12.5 Results of PBT and vPvB assessment

- Not Classified as PBT/vPvB by current EU criteria.

#### 12.5.1 Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

Not Classified as PBT/vPvB by current EU criteria.

#### 12.5.2 2-butoxyethanol

Not Classified as PBT/vPvB by current EU criteria.

#### 12.5.3 Highly refined mineral oil

Not Classified as PBT/vPvB by current EU criteria.

### 12.6 Endocrine disrupting properties

- Not applicable

### 12.7 Other adverse effects

- Spillages may form an oil layer on water surfaces causing physical damage to organisms. Oxygen transfer may also be impaired.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Dispose of in compliance with all local and national regulations.

### 13.2 Classification

- This material and its containers must be disposed of as controlled waste. Dispose of waste via a licensed waste disposal contractor.
- EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

- UN No.: Not classified as hazardous for transport

### 14.2 UN proper shipping name

- Proper Shipping Name: N/A

### 14.3 Transport hazard class(es)

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**SECTION 14: Transport information (....)**

- Hazard Class: N/A

14.4 Packing group

- Packing Group: N/A

14.5 Environmental hazards

- Presents no hazard to the environment

14.6 Special precautions for user

- Not available.

14.7 Maritime transport in bulk according to IMO instruments

- Not available.

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**SECTION 15: Regulatory information**

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

- Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
- Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

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**SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled.

Disclaimer

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process

--- end of safety datasheet ---