

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : MECHANICAL PUMP OIL - 45**

### 1. Product and Company Identification

Product name: Edwards No 45 Oil  
Synonyms: Edwards Q45  
Item Numbers: H110-22-013, H110-22-015 H01800001, H01800003, H01800005

#### European Contact Details

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#### General enquiries

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#### General enquiries

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Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

### 2. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Polyalphaolefin	100	68037-01-4	Not applicable	Not applicable

\*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive (67/548/EEC, as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

### 3. Hazards Identification

#### EMERGENCY OVERVIEW

This oil, when properly handled according to good working and hygienic practices, is not dangerous to human health and the environment. Incomplete combustion of the oil may produce carbon monoxide.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: None expected. The oil is not an irritant.  
Skin Effects: None expected. The oil is not a primary irritant or corrosive.  
Ingestion/Oral Effects: The oil is non-toxic by ingestion.  
Inhalation Effects: The oil is non-hazardous by inhalation under normal conditions of use.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	0	Health	0	0 = No Hazard
Flammability	1	Flammability	1	1 = Slight Hazard
Instability	0	Reactivity	0	2 = Moderate Hazard
				3 = Serious Hazard
				4 = Severe Hazard

### 4. First Aid Measures

Eyes: Flush with water. If irritation occurs, seek medical attention.

Skin: Wash with soap and water. If irritation occurs, seek medical attention.

Ingestion/Oral: Do not induce vomiting. Seek medical attention. Wash out small amounts of oil in the mouth.

Inhalation: Remove to fresh air. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated. Seek immediate medical attention.

Other Information: None.

### 5. Fire Fighting Measures

Extinguishing Media: Water fog, chemical foam or carbon dioxide. Direct water stream may cause violent frothing.

Fire and Explosion Hazard: Incomplete combustion may produce carbon monoxide.

Special Protective Equipment for Fire Fighters: Fire fighters should wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode and full turn out gear when there is a possibility of fumes or hazardous decomposition products.

For Flammability Properties - see Section 9

### 6. Accidental Release Measures

Small spills may be wiped up with a rag.

In the case of a large spill:

- Prevent contact of the spilled oil with hot surfaces and flames.
- Wear personal protective clothing (see Section 8 Exposure Controls and Personal Protection).
- Recover the spilled oil by absorbing with earth, sand or sawdust and collecting in a suitable container. Safely dispose of the recovered oil and absorbent (refer to Section 13).
- Wash the area of the spill to prevent slip hazard.

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#### 7. Handling and Storage

Handling: Wear protective clothing when required. Do not drink or eat during handling. Do not smoke in working areas. Avoid heating to temperatures above 200 °C/392 °F.

Storage: Keep away from heat sources and incompatible materials (see Section 10). Store in its original containers in a well-ventilated, dry area.

#### 8. Exposure Controls/Personal Protection

##### Exposure Limits:

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Polyalphaolefin	5 mg/m <sup>3</sup> - 8H TWA * 10 mg/m <sup>3</sup> - STEL (as oil mist, mineral)	5 mg/m <sup>3</sup> - 8 H TWA (as oil mist, mineral)	5 mg/m <sup>3</sup> - 8 H TWA 10 mg/m <sup>3</sup> - STEL (as oil mist, mineral)

\* As sampled by a method which does not collect vapour.

##### Personal Protection:

Engineering Measures: Ensure good ventilation under all working conditions. Ventilation must be sufficient to ensure that oil mist is kept below the level indicated above. Provide eye wash facilities.

Respiratory Protection: None required under normal conditions of use. Wear suitable breathing apparatus where significant amounts of oil mist are present.

Hand/Skin Protection: Wear gloves made of oil-impermeable rubber.

Eye/Face Protection: Wear protective glasses/goggles with side shields in case of splashing.

Hygiene Measures: Practice good workplace hygiene. Do not eat, drink or smoke whilst using the oil. Wash hands after use.

Other/General Protection: None.

#### 9. Physical and Chemical Properties

Appearance and Odour	Colourless, odourless liquid	Boiling point	133 / 271	°C/°F
pH (as supplied)	No data available	Freezing Point	No data available	°C/°F
Solubility in Water	Insoluble	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	No data available	Flash Point	> 264 / 507	°C/°F
Specific Gravity	0.83			
Vapour Pressure (mbar)	< 0.0013 @ 25 °C	Vapour Pressure (Torr)	< 0.0001 @ 77 °F	

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### 10. Stability and Reactivity

Stability: Stable.

Material/Conditions to Avoid: Strong oxidisers. Temperatures > 200 °C / 392 °F.

Hazardous Decomposition: Incomplete combustion may produce carbon monoxide.

Hazardous Polymerisation: Hazardous polymerisation is unlikely to occur.

### 11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 3 Hazards Identification.

#### Animal data:

LD50 value: Acute oral : > 5.0 g/kg (male and female sprague-dawley rats)

LC50 value: Inhalation : 4.68 mg/l (1 h) (rats). Note that this is an estimated value for a similar compound and is considered toxic. In order to determine this value, an extremely heavy mist of oil was required. The heavy mists at the necessary concentration made visibility difficult and would be difficult to work in for a period of time. It was reported that histopathological changes may compound related toxicity effect.

#### Carcinogenicity:

No known tumorigenic, reproductive, carcinogenic or mutagenic effects.

### 12. Ecological Information

When used/disposed of correctly, no adverse environmental effects are foreseen. The oil is non-volatile and insoluble in water. The oil is slowly biodegradable in aerobic conditions.

### 13. Disposal Considerations

Dispose of waste oil and used containers in accordance with all local and national requirements.

### 14. Transport Information

This product is not classified as dangerous under transport regulations.

PARAMETER	EUROPEAN	CANADIAN TDG	UNITED STATES DOT
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Hazard Class	Not applicable	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable	Not applicable
Shipping Label	Not applicable	Not applicable	Not applicable

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### 15. Regulatory Information

#### European Regulatory Information

This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (88/379/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packing) Regulations 1994 (CHIP, as amended).

Classified as dangerous to supply : No

Risk Phrases : Not applicable

Safety Phrases : Not applicable

Symbols : None

#### United States Regulatory Information

All ingredients contained in this product are included on the EPA TSCA Chemical Substance Inventory.

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Canadian Regulatory Information

WHMIS Classification: Not Applicable.

All ingredients contained in this product are included on the Canadian DSL.

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### 16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and the EU Safety Data Sheet Directive 91/155/EEC.

Sources of information for this data sheet:

- Inland Vacuum Industries "Inland 45" Material Safety Data Sheet. Revision Date : January 2005.

### Glossary:

**ACGIH** - American Conference of Governmental Industrial Hygienists; **ANSI** - American National Standards Institute; **Canadian TDG** - Canadian Transportation of Dangerous Goods; **CAS** - Chemical Abstracts Service; **Chemtrec** - Chemical Transportation Emergency Center (US); **CHIP** - Chemical (Hazard Information and Packing); **DSL** - Domestic Substances List; **EH40 (UK)** - HSE Guidance Note EH40 Occupational exposure limits; **EPA** - Environmental Protection Agency; **EPCRA** - Emergency Planning and Community Right-to-Know Act; **HMIS** - Hazardous Material Information Service; **LC** - Lethal Concentration; **LD** - Lethal Dose; **NFPA** - National Fire Protection Association; **OSHA** - Occupational Safety and Health Administration, US department of Labour; **PEL** - Permissible exposure limit; **SARA (Title III)** - Superfund Amendments and Reauthorization Act; **SARA 313** - Superfund Amendments and Reauthorization Act, Section 313; **SCBA** - Self-Contained Breathing Apparatus; **STEL** - Short Term Exposure Limit; **TLV** - threshold limit value; **TSCA** - Toxic Substances Control Act Public Law 94-469; **TWA** - Time-Weighted Average; **US DOT** - US Department of Transportation; **WHMIS** - Workplace Hazardous Materials Information System.

### Revisions:

Nov 2007 - Data Sheet updated to reflect the latest supplier safety information.

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