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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

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2. 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, refer to 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.



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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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	

3. 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 No 1272/2008 (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".

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.

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 and operates in positive pressure mode. Fire fighters must wear full turn out gear when there is a possibility of fumes or

hazardous decomposition products.

For Flammability Properties - refer to Section 9.



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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.

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 ³ - 8H TWA* 10 mg/m ³ - STEL (as oil mist, mineral)	5 mg/m ³ - 8 H TWA (as oil mist, mineral)	5 mg/m ³ - 8 H TWA 10 mg/m ³ - 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 work place hygiene. Do not eat, drink or smoke whilst using the

oil. Wash hands after use.

Other/General Protection: None.



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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	

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 2 Hazards Identification.

Animal data:

LD50 value: Acute oral: > 5.0 g/kg (rats). Acute dermal: 0.5 (scale 0-8) primary irritation index.

LC50 value: Inhalation: 4.68 mg/l (1 h) (rats). In order to determine this value, an extremely heavy mist of

oil was required which would be difficult to work in for any significant period of time.

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.



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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

15. Regulatory Information

European Regulatory Information

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

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 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 Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

• Inland Vacuum Industries "Inland 45" Material Safety Data Sheet. Revision Date: January 2009.

Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations; Chemtrec - Chemical Transportation Emergency Center (US); DSL - Domestic Substances List; EEC -European Economic Community; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA -Emergency Planning and Community Right-to-Know Act; EU - European Union; 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:

October 2010 - Data Sheet updated to reflect the latest regulatory and supplier safety information.

Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is recommended that you make your own determination of the material's suitability for your purpose before you use it. The information contained in this data sheet has been reproduced from the manufacturers' data; the accuracy of this information is the responsibility of the manufacturer. Edwards accept no responsibility for damage of any nature resulting from the use of, or the reliance upon, this data sheet.