

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW

1. Product and Company Identification

Product name: Edwards TW Oil
Synonyms: None
Item Numbers: H110-12-013, H110-12-015, H110-12-026

European Contact Details

Edwards, Manor Royal, Crawley
West Sussex, RH10 9LW, England

General enquiries

UK : +44 (0)1293 528844
France : +(33) 1 47 98 24 01
Germany : +(49) 6420-82-410
Italy : +(39) 0248-4471

US Contact Details

Edwards, 301 Ballardvale Street,
Wilmington, MA 01887

General enquiries

+(1) 978-658-5410
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*
Technical white petroleum oil	100	8042-47-5	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: Exposure to oil mist may cause irritation to the eyes.
Skin Effects: None expected.
Ingestion/Oral Effects: The oil is non-hazardous by ingestion.
Inhalation Effects: Exposure to oil mist may cause nausea. See also Section 8 Exposure controls.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW

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. 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 of the product may produce carbon monoxide.
- Special Protective Equipment for Fire Fighters: In confined spaces fire fighters should wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode and full turnout gear.

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.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW
--

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)
Technical white petroleum oil	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 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	Transparent colourless liquid with a faint petroleum odour	Boiling point	> 300 / 572	°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	None	Flash Point	> 243 / 470	°C/°F
Specific Gravity	0.86			
Vapour Pressure (mbar)	<1.3 x 10 ⁻⁴ @ 25 °C	Vapour Pressure (Torr)	<1 x 10 ⁻⁴ @ 77 °F	

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW

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: Will not 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: No information available.

LC50 value: No information available.

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

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW

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: D2B

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

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - TW

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 TW" Material Safety Data Sheet. Revision Date : January 2004.

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.

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.