

**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**

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**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**

There is the possibility of explosion if gas mixtures are being pumped which contain oxygen at a concentration more than 4% above that in air. Prolonged and repeated exposure to oil products can be detrimental to health. Particular issues of concern are inhalation of oil mist and contact with the skin.

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:** No information available. Based on similarity to other mineral oils, product is believed to be relatively non-toxic. Aspiration of small amounts of oil into the lungs from vomiting following ingestion, may cause lung swelling and fluid retention (edema).  
**Inhalation Effects:** Exposure to oil mist may cause nausea. See also Section 8 Exposure controls.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	1	Health	1	0 = No Hazard
Flammability	1	Flammability	1	1 = Slight hazard
Instability	0	Reactivity	0	2 = Moderate Hazard
Special hazard	None			3 = Serious Hazard
				4 = Severe hazard

#### 4. First Aid Measures

- Eyes:** Flush with water. Consult a physician.
- Skin:** Wash with soap and water.
- Ingestion/Oral:** DO NOT induce vomiting due to aspiration hazard. Consult a physician. Small amounts in the mouth may be washed out.
- 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

Spills should be dealt with as follows:

- Small spill : May be wiped up with a rag.
- Large spill : Prevent product from entering the soil, drains, sewers and watercourses. Pick up spilt material with a suitable adsorbent.

If product enters any water courses or sewers, conform with relevant local/government regulations.

#### 7. Handling and Storage

**Handling :** The product is unlikely to present a significant health hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

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Storage : No special storage required. However, keep the product in a well ventilated, dry atmosphere. Store in the original containers.

**8. Exposure Controls/Personal Protection**

**Exposure Limits**

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Technical white petroleum oil	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 must be kept below the level indicated above. Local exhaust from mechanical pumps should be via a mist filter. Avoid pumps exhausting into the workspace.
- Respiratory Protection: None is required unless significant amounts of oil mist are present.
- Hand/Skin Protection: Wear gloves made of oil-impermeable rubber.
- Eye/Face Protection: Wear protective goggles with side shields in case of splashing.
- Hygiene Measures: Avoid contact with skin. Do not eat or smoke whilst using the product. Wash hands before eating or smoking.
- Other/General Protection: There is the possibility of explosion if gas mixtures are being pumped which contain oxygen at a concentration more than 4% above that in air. Do not use Edwards TW oil in conditions where oil mist and an oxygen enriched atmosphere are in contact with an ignition source (such as a hot surface). In this situation, use an alternative pump fluid, such as perfluoropolyether (PFPE).

**9. Physical and Chemical Properties**

Appearance and Odour	Transparent colourless liquid with a faint petroleum odour	Boiling Point	158/316	°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)	<1.3X10 <sup>-4</sup> @ 25°C	Vapour Pressure (Torr)	<10 <sup>-4</sup> @ 77°F	

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**10. Stability and Reactivity**

Stability: Product is stable.  
Material/Conditions to Avoid: Avoid strong oxidisers. Avoid continuous exposure to temperatures >200°C/392°F.  
Hazardous Decomposition: Incomplete combustion may produce carbon monoxide.

**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**

No information available.

**13. Disposal Considerations**

Proper waste disposal procedures are dependent on the product's end-use. Check applicable local legislation governing treatment, storage and disposal of your process effluents.

**14. Transport Information**

This product is not regulated 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

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

WHMIS Classification: D2B.

## 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 Material Data Sheet for Inland TW Oil. Issue date : 23 January, 1997
- Edwards Material Data Sheet for Edwards TW Oil. Publication number : P110-00-080. Issue B. Date : June 1997
- National Library of Medicine (NLM) electronic databases (HSDB, RTECS, CHEMID, Toxline)

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**Glossary :** **CAS**, Chemical Abstracts Service; **NFPA**, National Fire Protection Association; **HMIS**, Hazardous Material Information Service; **LD**, Lethal Dose; **LC**, Lethal Concentration; **ACGIH**, American Conference of Governmental Industrial Hygienists; **TLV**, threshold limit value; **OSHA**, Occupational Safety and Health Administration, US department of Labour; **PEL**, Permissible exposure limit; **EH40 (UK)**, HSE Guidance Note EH40 Occupational exposure limits; **PPM**, parts per million; **TWA**, Time-Weighted Average; **STEL**, Short Term Exposure Limit; **Canadian TDG**, Canadian Transportation of Dangerous Goods; **US DOT**, US Department of Transportation. **HSDB**, Hazardous Substances Data Bank; **RTECS**, Registry of Toxic Effects of Chemical Substances; **CHEMID**, Chemical Identification; **DSL**, Domestic Substances List ; **TSCA**, Toxic Substances Control Act Public Law 94-469: **CERCLA**, Comprehensive Environmental Response, Compensation and Liability Act; **EPCRA**, Emergency Planning and Community Right-to-Know Act; **CAA**, Clean Air Act; US, **SARA (Title III)**, Superfund Amendments and Reauthorization Act.; **SARA 313**, Superfund Amendments and Reauthorization Act, Section 313; **EHS**, Extremely Hazardous Substance; **WHMIS**, Workplace Hazardous Materials Information System.

**Revisions**

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