

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - TW

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Product name: Edwards TW Oil.
Other means of identification: None.
Item numbers: H110-12-013, H110-12-015, H110-12-026.

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

Identified use: Lubricating oil.
Uses advised against: No data available.

1.3 Details of the supplier of the safety data sheet.

UK contact details

Edwards, Innovation Drive, Burgess Hill, West Sussex,
RH15 9TW, United Kingdom

General enquiries
Tel: +44 (0)8459 212223
Email: info@edwardsvacuum.com

US contact details

Edwards, 6416 Inducon Drive West, Sanborn,
New York, 14132, USA

General enquiries
Toll Free: 1-800-848-9800

1.4 Emergency telephone number

Chemtrec: 1-800-424-9300.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification: Mixture.
Classification according to
Regulation (EC) No. 1272/2008: Not classified as hazardous.
Classification according to
Directive 1999/45/EC: Not classified as hazardous.

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2.2 Label elements

Hazard pictograms: Not applicable.
Signal words: Not applicable.
Hazard statements: Not applicable.
Precautionary statements: Not applicable.

2.3 Other hazards

PBT criteria: No data available.
vPvB criteria: No data available.
Other hazards which do not result in a classification: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase / Hazard Statements*
Distillates, Severely Hydrotreated Paraffinic Oil	> 99	8042-47-5	Not applicable	Not applicable

* Hazard class, Risk phrase and Hazard Statements. 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".

Full text for the declared risk phrases and hazards statements is given in Section 16.

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes:	Check for and remove any contact lenses. Rinse eyes thoroughly with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention if symptoms persist.
Skin:	Wash contaminated skin with plenty of soap and water. Seek medical attention if symptoms occur.
Ingestion/Oral:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.
Inhalation:	If breathing problems occur, remove the affected person to fresh air. A qualified individual should administer Oxygen or artificial respiration as indicated. Seek immediate medical attention.
General advice:	Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

4.2 Most important symptoms and effect, both acute and delayed

Potential acute health effects:

Eyes:	Slightly irritating to the eyes.
Skin:	Slightly irritating to the skin.
Ingestion / Oral:	None known.
Inhalation:	None known.
Over-exposure symptoms:	
Eyes:	Irritation, watering and redness.
Skin:	Irritation, redness, dryness and cracking.
Ingestion / Oral:	Nausea or vomiting.
Inhalation:	None known.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Water spray (fog) or foam, dry chemical, CO ₂ .
Unsuitable extinguishing media:	None known.

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5.2 Special hazards arising from the substance or mixture

Fire and explosion hazard: May be combustible at high temperatures.

Hazardous combustion products No data available.

5.3 Advice for fire-fighters

Special precautions for fire-fighters: No data available.

Special protective equipment for fire-fighters: Firefighters should wear Self-Contained Breathing Apparatus (SCBA) with a full face-piece operated in positive pressure mode.

For Flammability Properties - refer to Section 9.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate non-essential staff, or those not equipped with individual personal protective equipment. Turn leaking containers leaktight up to prevent the escape of the product. Do not touch or walk through spilled material. Avoid contact with skin and eyes. Avoid breathing vapour or mist. Put on appropriate personal protective equipment (refer to Section 8).

For emergency responders: No data available.

6.2 Environmental precautions:

Stop the leak if it is safe/possible to do so. Use dykes or bunding to prevent spreading. Avoid contaminating sewers, streams, rivers and other water courses with spilled product. Notify the appropriate authorities if significant contamination occurs.

6.3 Methods and material for containment and cleaning up

Put on the necessary personal protective equipment: refer to Section 8. Exercise caution; the spill area may be slippery. Approach release from upwind.

Prevent contact of the spilled oil with hot surfaces and flames. Approach release from upwind. Small spills may be cleaned up with a rag or other suitable cloth. For large spills, absorb material onto vermiculite, dry sand, earth or similar inert absorbent. Place spilled material into covered container for disposal. Use a suitable cleaning solution to clean up any remaining product. Dispose of according to applicable local, state and federal regulations. Do not flush into surface water or sanitary sewer system.

6.4 Reference to other sections

Refer to Section 8 for information on personal protective equipment.

Refer to Section 13 for information on disposal considerations.

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure personal protective equipment is used whenever handling the product, refer to Section 8. Do not breathe vapour or mist. Do not ingest. Avoid contact with skin, eyes and clothing.

Avoid eating and drinking in areas where the product is used. Practice good hygiene. Wash hands after use and prior to consuming food and drink.

7.2 Conditions for safe storage, including any incompatibilities

DO NOT store together with food. Store in original, sealed containers protected from direct sunlight in a dry, cool, well ventilated area away from heat sources and strong oxidising agents. Opened containers must be resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

No data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Substance	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Not applicable	Not applicable	Not applicable	Not applicable

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation under all working conditions.

Individual protection measures:

Eye/Face Protection: Safety glasses with side shields, safety goggles or face shields in case of splashes.

Hand/Skin Protection: Wear suitable protective clothing such as oil impermeable gloves and overalls/coveralls appropriate to the risk at the specific workplace.

Respiratory Protection: None required under normal conditions of use.

Hygiene Measures: Practice good hygiene. Wash face, hands and any exposed skin thoroughly after handling. Remove all soiled and contaminated clothing. Do not eat or drink while handling the product.

Other/General Protection: HMIS Code/Personal protective equipment: B
Environmental exposure controls: Emissions from ventilation or equipment should be checked for compliance with the requirements of environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be required to reduce emissions to acceptable levels.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Bright oily viscous liquid. Transparent and colourless	Melting point / freezing point	No data available	°C / °F
Odour	Faint petroleum	Initial boiling point and boiling range	Boiling point: 158 / 316 @ .01 torr	°C / °F
Odour threshold	Not data available	Flash point	243 / 469	°C / °F
pH	No data available	Upper/lower flammability or explosive limits	No data available	°C / °F
Evaporation rate	No data available	Vapour pressure	< 0.0001 @ 25 °C / 77 °F	Torr
Flammability (solid, gas)	No data available	Vapour density	No data available	g/cm ³
Solubility(ies)	Not soluble in water	Relative density	No data available	g/l
Partition coefficient: n-octanol/water	No data available	Auto-ignition temperature	No data available	°C / °F
Explosive properties	No data available	Decomposition temperature	No data available	°C / °F
Oxidising properties	No data available	Viscosity	65 @ 40 °C / 104 °F	cSt

9.2 Other information

None.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

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10.5 Incompatible materials

Strong oxidizing agents.

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

Acute toxicity:	Base oil: LD50 Oral: > 5g/kg (rat). LD50 Dermal: > 2g/kg (rabbit).
Irritation:	Slightly irritating to skin and eyes.
Corrosivity:	No data available.
Sensitisation:	No data available.
Repeat dose toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Specific Target Organ Toxicity (STOT) - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	Aspiration hazard if swallowed. Can enter lungs and cause damage.
Toxicity for reproduction:	No data available.

Information on likely routes of exposure

No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Effects:	May cause slight irritation.
Skin Effects:	May cause slight irritation.
Ingestion/Oral Effects:	None known.
Inhalation Effects:	None known.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

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Other information

No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

When used and/or disposed of correctly, no adverse environmental effects are foreseen.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

12.6 Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of the product, solutions and any by-products in compliance with all applicable local and national regulations.

Packaging: Dispose of the packaging in compliance with all applicable local and national regulations. Empty containers may contain residue and can be dangerous. Surplus and non-recyclable products should be disposed of via a licenced waste disposal contractor.

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SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.3 Transport hazard class

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.4 Packing group

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.5 Environmental hazards

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.6 Special precautions for user

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

No data available.

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SECTION 15. REGULATORY INFORMATION

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

European

This product has been classified in accordance with EU Regulation No 1907/2006 (REACH) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

German Federal Water Management Act: No data available.

United States

Materials contained in this product are on the U.S. Toxic Substances Control Act (TSCA).

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

WHMIS Classification: No data available.

Ingredients in this product are included in the Canadian DSL.

15.2 Chemical safety assessment

No data available.

SECTION 16. OTHER INFORMATION

This SDS is compiled in accordance with ANSI Z400.1, Regulation (EC) No 1907/2006 (as amended by Regulation No 453/2010) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

16.1 Full text of abbreviated statements and phrases

Not applicable.

16.2 NFPA / HMIS hazard codes

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
				3 = Serious Hazard
				4 = Severe Hazard

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16.3 Sources of information for this data sheet

- Inland Vacuum Industries "Inland TW" Material Safety Data Sheet. Revision Date: January 2013

16.4 Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ANSI - American National Standards Institute; CAS No. - Chemical Abstracts Service number; Chemtrec - Chemical Transportation Emergency Centre (US); DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA - Emergency Planning and Community Right-to-Know Act; EU - European Union; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; HMIS - Hazardous Material Information Service; IATA - International carriage of dangerous goods by air; IBC - International Bulk Chemical; IMDG - International carriage of dangerous goods by sea; LD - Lethal Dose; MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the protocol of 1978; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, Toxic chemical; PEL - Permissible Exposure Limit; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - International carriage of dangerous goods by rail; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SDS - Safety Data Sheet; STEL - Short Term Exposure Limit, 15 minute reference period; STOT - Specific Target Organ Toxicity; SCBA - Self-Contained Breathing Apparatus; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Average, 8 hour reference period; US DOT - US Department of Transportation; vPvB - Very Persistent, Very Bioaccumulative chemical; WHMIS - Workplace Hazardous Materials Information System.

16.5 Revisions:

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

November 2012 - Data sheet updated to reflect the latest regulatory and supplier safety information.

December 2014 - Data Sheet updated to conform to Regulation (EC) No 1907/2006 (as amended by Regulation 453/2010) and GHS.

January 2016 - Contact details updated. Revision date not changed to preserve 2-yearly SDS review date.

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