

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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

1.1 Product identifier

Product name: Edwards No 45 Oil
Other means of identification: Edwards Q45
Item numbers: H110-22-013, H110-22-015, H018-00-001, H018-00-003, H018-00-005

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

Identified use: Mechanical pump 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.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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*
1 Decene, Homopolymer, Hydrogenated	-	68037-01-4	Not applicable	Not applicable
Proprietary Additives	-	-	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.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes:	Rinse 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:	None envisaged. Seek medical attention if symptoms occur.
Inhalation:	None envisaged. 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:	None.

4.2 Most important symptoms and effect, both acute and delayed

Potential acute health effects:

Eyes:	None known.
Skin:	None known.
Ingestion / Oral:	None known.
Inhalation:	None known.
Over-exposure symptoms:	
Eyes:	None known.
Skin:	None known.
Ingestion / Oral:	None known.
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 fog, chemical foam or Carbon Dioxide.
Unsuitable extinguishing media:	No data available.

5.2 Special hazards arising from the substance or mixture

Fire and explosion hazard:	No data available.
Hazardous combustion products	Smoke, fume, incomplete combustion products, Oxides of Carbon.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

5.3 Advice for fire-fighters

Special precautions for fire-fighters: Use water fog to keep fire exposed containers cool.

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. 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 area of the spill area may be slippery. Extinguish all ignition sources and evacuate the area. 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.

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. 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.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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. This product is a static accumulator.

7.3 Specific end use(s)

No data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient	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. Wear suitable breathing apparatus where significant amounts of oil and mist are present.

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

Other/General Protection: None.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid	Melting point / freezing point	No data available	°C / °F
Odour	Mild	Initial boiling point and boiling range	Boiling point: 133 / 271 @.01 Torr	°C / °F
Odour threshold	Not data available	Flash point	264 / 507	°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	0.97 @ 25 °C / 77 °F	g/cm ³
Solubility(ies)	Negligible solubility 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	53 @ 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

Excessive heat, high energy sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

10.6 Hazardous decomposition products

Smoke, fume, incomplete combustion products, Oxides of Carbon.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	LD50 Oral: > 2000 mg/kg (rat) LD50 Dermal: > 2000 mg/kg (rabbit) LC50 Inhalation: > 5000 mg/m ³ (rabbit)
Irritation:	May cause mild, short lasting discomfort to eyes.
Corrosivity:	No data available.
Sensitisation:	Not classified as a skin sensitiser.
Repeat dose toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	Not classified as a mutagen.
Specific Target Organ Toxicity (STOT) - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
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 temporary discomfort.
Skin Effects:	None known.
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.

Other information

No data available.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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

The product is expected to be inherently biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

The material has negligible insolubility in water.

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 in compliance with all applicable local and national regulations. Product is suitable for burning in an enclosed controlled burner for fuel value or disposed by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Packaging: Dispose of the packaging in compliance with all applicable local and national regulations. Empty containers may contain residue and can be dangerous. Do not attempt to refill/clean containers. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery or disposal through suitably qualified or licenced contractor and in accordance with governmental regulations.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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.

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

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 not 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.

Canadian DSL: No data available.

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	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

SAFETY DATA SHEET (SDS)

PRODUCT NAME: MECHANICAL PUMP OIL - 45

16.3 Sources of information for this data sheet

- Inland Vacuum Industries "Inland 45" 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; LC - Lethal Concentration; 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.

November 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.

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 manufacturer's data; accuracy of this information is the responsibility of the manufacturer. It should not, therefore, be construed as guaranteeing any specific property of the product.