

P120-01-010 Issue: G Date: July 12

Page 1 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## 1. Product and Company Identification

Ultragrade 15, Ultragrade 19, Ultragrade 20, Ultragrade 70 Mechanical Pump Oils Product name:

Synonyms: Ultragrade 15: Super Vac fluid 15 Ultragrade 19: Super Vac fluid 19

> Ultragrade 20: Super Vac fluid 20 Ultragrade 70: None

Ultragrade 15: H110-26-010, H110-26-011, H110-26-012, H110-26-013, H110-26-015 Item Numbers:

Ultragrade 19: H110-25-010, H110-25-011, H110-25-012, H110-25-013, H110-25-015,

H110-25-020

Ultragrade 20: H110-24-010, H110-24-011, H110-24-012, H110-24-013, H110-24-015

Ultragrade 70: H110-28-010, H110-28-011, H110-28-013

#### **European Contact Details**

Edwards, Manor Royal, Crawley West Sussex, RH10 9LW, England E-mail: info@edwardsvacuum.com

General enquiries

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

#### **US Contact Details**

Edwards, Three Highwood Drive, Suite 3-10E, Highwood Office Park, Tewksbury, MA 01876

General enquiries +(1) 978-658-5410

Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

#### 2. Hazards Identification

### **EMERGENCY OVERVIEW**

Non hazardous in bulk liquid form at low to moderate temperatures. Heating to high temperature or mechanical actions may produce fumes which may cause irritation of the breathing passages.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: May cause irritation and redness.

Skin Effects: Contact with skin may cause mild irritation.

Ingestion/Oral Effects: Low toxicity on ingestion, has laxative effect and is rapidly eliminated.

Inhalation Effects: Negligible breathing hazard at normal temperatures (up to 38 °C/100 °F) or

> recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists and fumes. Inhalation of oil mists or vapours from hot oil may cause irritation to the upper respiratory tract. Oil deposits in the lung may lead to fibrosis and

reduced pulmonary functions.



P120-01-010 Issue: G Date: July 12

Page 2 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

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	

## Composition/Information on Ingredients

Ingredient	% Weight	CAS No*	Hazard class*	Risk phrase*
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	100	Mixture	Not applicable	Not applicable

<sup>\*</sup>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".

\*CAS No. The base oil may be a mixture of the following CAS No's: 8042-47-5, 64742-46-7, 64742-47-8, 64742-53-6, 64742-54-7, 64742-55-8, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2 and 445411-73-4.

#### 4. First Aid Measures

Eyes: Flush eyes with large amounts of water until irritation subsides. If irritation persists get

medical assistance. Keep eyelids open whilst flushing.

Skin: Flush with large amounts of water-use soap if available. Remove grossly contaminated

clothing, including shoes, and launder before reuse.

Ingestion/Oral: Wash out mouth with water. If swallowed, do not induce vomiting. Keep at rest. Get prompt

medical attention.

Inhalation: Using approved respiratory protection, immediately remove the affected victim from

exposure. Administer artificial respiration if breathing has stopped. If breathing is difficult,

give oxygen. Keep at rest. Call for prompt medical attention.

Other Information: None.



P120-01-010 Issue: G Date: July 12 Page 3 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## 5. Fire Fighting Measures

Extinguishing Media: Use water spray to cool surfaces exposed to fire. Extinguish with alcohol resistant

foam, carbon dioxide, water fog or dry chemical. Avoid spraying water directly

into storage containers due to danger of boil over.

Fire and Explosion Hazard: Containers may explode if exposed to fire. Hazardous combustion products:

carbon oxides, diphenylamine, smoke and irritating fumes as result of incomplete

combustion. Direct water stream may cause violent frothing.

Special Protective Equipment

for Fire Fighters:

No special protection required for small outdoor fires. Indoor fires & significant outdoor fires, wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode, and full turn out gear.

For Flammability Properties - see Section 9.

#### 6. Accidental Release Measures

#### Personal precautions:

Evacuate non-essential staff, or those not equipped with individual protection apparatus. Turn leaking containers leak-side up to prevent the escape of liquid. Remove/extinguish sources of ignition. Avoid inhalation and contact with skin and eyes.

#### **Environmental precautions:**

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

#### Clean-up procedures:

Use suitable inert absorbent materials to absorb spilled product. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose of collected product safely: see Section 13 "Disposal Considerations".

#### 7. Handling and Storage

Handling: Avoid the formation or spread of mists in the air. Avoid inhalation of mists. Avoid contact with

skin, eyes and clothing. Prevent small spills and leakage to avoid slip hazard. DO NOT handle

near an open flame, sources of heat or sources of ignition.

Storage: Combustible materials should be stored away from extreme heat and strong oxidising agents.

Store in tightly closed containers in cool, dry and well ventilated areas. Electrically earth

(ground) all equipment containing the material.

Must only be kept in original packaging. Compatibility with plastic materials can vary; it is

therefore recommended that compatibility be tested prior to use.



P120-01-010 Issue: G Date: July 12

Page 4 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## 8. Exposure Controls/Personal Protection

## **Exposure Limits:**

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Mixture of severely hydrotreated paraffinic oil	5 mg/m³ - 8 hr TWA * 10 mg/m³ - 15 min STEL (as oil mist, mineral)	5 mg/m³ - 8 hr TWA (as oil mist, mineral)	5 mg/m³ - 8 hr TWA 10 mg/m³ - 15 min STEL (as oil mist, mineral)

<sup>\*</sup> Recommendation by the manufacturer for oil mists: ACGIH TLV. TWA: 8 hr - 5 mg/m<sup>3</sup>.

### **Personal Protection:**

**Engineering Measures:** Ensure good ventilation under all working conditions. Ensure that eyewash

station and safety shower are close to working area.

**Respiratory Protection:** No special respiratory protection is normally required. For high airborne

concentrations with inadequate ventilation, use an approved organic vapour

cartridge respirator.

Hand/Skin Protection: Wear chemical-resistant, impervious gloves, Viton®, Nitrile Neoprene or

Polyvinyl alcohol (PVA) gloves are recommended. Gloves should be replaced

immediately if signs of degradation are observed.

Long sleeved clothing is recommended to minimise skin contact.

Wear chemical splash goggles in case of splashing. Eye/Face Protection:

Practice good hygiene. Wash hands after handling and before eating. Hygiene Measures:

Other/General Protection: None.

## **Physical and Chemical Properties**

Appearance and Odour	Colourless, liquid with slight petroleum oil odour	Melting point (pour point)	No data available	°C/°F
pH (as supplied)	No data available	Viscosity (cSt)	Grade 15: 38/100 @ 40°C Grade 19: 55/131 @ 40°C Grade 20: 103/217 @ 40°C Grade 70: 70/104 @ 40°C	°C/°F
Solubility in Water	Insoluble in cold water	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	Non volatile	Flash Point	Grades 15, 19 & 20: 220 / 428 Grade 70: 230 / 446	°C/°F
Specific Gravity	0.86 @ 15 °C (59°F)			



P120-01-010 Issue: G Date: July 12 Page 5 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## 10. Stability and Reactivity

Stability: Stable.

Material/Conditions to Avoid: Strong oxidising agents, reducing agents, acids, bases and alkalis.

Excessive heat and formation of oil mist.

Hazardous Decomposition: Carbon oxides, diphenylamine and smoke on combustion.

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 2 Hazards Identification.

#### Animal data:

LD50 value: Oral: >5000 mg/kg (rat). Dermal: >2000 mg/kg (rabbit).

LC50 value: Inhalation :>2500 mg/m³ mist /4h (rat). Dermal/eye irritation : non irritant to rabbit.

#### Chronic toxicity:

No chronic effects expected.

#### Carcinogenicity:

No known carcinogenic, teratogenic or mutagenic effects.

### 12. Ecological Information

### **Ecotoxicity:**

Low toxicity.

### Mobility:

Insoluble in water. Floats on water.

### Persistence and degradability:

Expected to be Biodegradable.

### Bioaccumulative potential:

No bioaccumulation potential.



P120-01-010 Issue: G Date: July 12 Page 6 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## 13. Disposal Considerations

#### **Disposal operations:**

This product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Used material should be disposed of through a suitably qualified or licensed waste contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

## Disposal of packaging:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Ensure compliance with local regulations.

DO NOT pressurise, cut, heat or weld containers. Empty product containers may contain product residue.

DO NOT reuse empty containers without commercial cleaning or reconditioning.

Note: According to European Waste Catalogue, Waste Codes are not product specific, but application specific. The user must be aware that the conditions of use may affect the waste classification after use. Please refer to the List of Wastes (England) Regulations 2005 (as amended) for waste nomenclature.

## 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.

German Federal Water Management Act: Water contaminating class - Mixture - Not applicable.



P120-01-010 Issue: G Date: July 12

Page 7 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

## **United States Regulatory Information**

This material is on the Toxic Substances Act Inventory (TSCA-USA).

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 Classified.

This material is on the Domestic Substances List (DSL-Canada).

#### 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).

All ingredients for these products are registered in accordance with REACH with the exception of Ultragrade 70. The ingredients for Ultragrade 70 are pre-registered.

Sources of information for this data sheet:

- Multisol Limited "ULTRAGRADE 15" Material Safety Data Sheet. Revision 04. Date: 13th November 2009.
- Multisol Limited "ULTRAGRADE 19" Material Safety Data Sheet. Revision 04. Date: 13th November 2009.
- Multisol Limited "ULTRAGRADE 20" Material Safety Data Sheet. Revision 04. Date: 13th November 2009.
- PETRO-CANADA "ULTRAGRADE 70" Material Safety Data Sheet. Revision 00. Date: 30th October 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; Chemtrec - Chemical Transportation Emergency Center (US); DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational exposure limits; 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.



P120-01-010 Issue: G Date: July 12

Page 8 of 8

# PRODUCT NAME: MECHANICAL PUMP OIL - ULTRAGRADE 15,19,20,70

#### **Revisions:**

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

February 2012 - Data Sheet updated to reflect the latest regulatory and PETRO-CANADA (supplier) safety information for "ULTRAGRADE 70".

July 2012 - Data Sheet updated to reflect the latest regulatory and PETRO-CANADA (supplier) safety information for "ULTRAGRADE 70".

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