

Material Safety Data Sheet

P110-12-040
Issue B
Date 06/97

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name	RT 15 Fomblin Grease
Item No(s)	H113-50-013.
Synonyms	None.
Intended use	Lubrication of bearings and 'O' rings.
Supplier	Edwards High Vacuum International Manor Royal, Crawley, West Sussex RH10 2LW, UK http://www.edwards.boc.com
Emergency Telephone Numbers	UK: +44 (0) 1293 528844 France: +331 (1) 47 98 24 01 Germany: +49 (0) 6421 8030 USA transport enquiries: Chemtrec 1 800 424 9300 USA other enquiries: 1 800 848 9800

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients name	% Weight	Classification	Risk phrase	CAS No.
PTFE thickened fully fluorinated fluids (perfluoropolyether liquid, blended with polytetrafluoroethylene telomers)	80	Non hazardous	Not applicable	Not applicable
PTFE thickened fully fluorinated fluids (perfluorofluoro-polyether PTFE)	20	Non hazardous	Not applicable	Not applicable

SECTION 3 HAZARDS IDENTIFICATION

Nature of the hazard	Excessive or prolonged skin contact may lead to dermatitis.
Precaution to be taken	Follow the advice given in Sections 7 and 8 of this data sheet.

SECTION 4 FIRST AID MEASURES

Skin contact	Wash thoroughly with soap and water.
Eyes contact	Flush with water for up to 10 minutes. If irritation still persists, refer for medical attention.
Inhalation	Not applicable in normal use.
Ingestion	Do not induce vomiting. Obtain medical attention immediately.
Other information	Should any symptoms or discomfort persist, seek medical advice.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide, powder or foam. Do not use water jet.
Fire fighting procedure	Use self-contained breathing apparatus where large quantities are involved.
Unusual fire fighting hazards	None.
Combustion products	Exposure to high temperatures will produce acidic and toxic thermal decomposition products.
Fire hazards in presence of other materials	None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Immediately wipe up.

Remove any residue with fluorinated solvents.

SECTION 7 HANDLING AND STORAGE

Minimum temperature 0 °C, maximum temperature 40 °C.

Do not smoke while using this product. Wash hands thoroughly before smoking. When a grease gun is used, take care not to inject grease under the skin.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	Local exhaust ventilation not required in normal use. Mechanical ventilation not required in normal use.
Exposure limits	Not applicable.
Respiratory protection	Not required at normal temperatures, avoid inhaling fumes at elevated temperatures.
Eye protection	Use safety glasses.
Hand protection	Use plastic gloves where necessary, or a good quality barrier cream.
Other requirements	Overalls laundered regularly.
Hygiene measures	Do not smoke while using these products. Wash hands before handling smoking products.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour	Soft white paste	Auto ignition (°C)	> 200
Boiling point (°C)	Not applicable	pH (as supplied)	Neutral
Melting point (°C)	- (non-melting)	Vapour pressure (mbar)	5 x 10 ⁻⁹ at 20 °C
Freezing point (°C)	Not applicable	Solubility in water	Insoluble
Flash point (°C)	> 200	Volatile content by volume	< 5%
Flash point method	Not known	Specific gravity (H ₂ O=1)	≈ 2.0

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Heating above 260 °C.
Materials to avoid	Alkaline metals and ammonia.
Hazardous decomposition products	See combustion products in Section 5. None in normal use.

SECTION 11 TOXICOLOGICAL INFORMATION

Possible health effects

Skin	None, except on prolonged or repeated exposure, which may lead to dermatitis.
Eyes	May cause stinging.
Inhalation	In normal conditions, breathing of fumes should be avoided but long term toxic effects are unlikely. Inhalation of thermal decomposition products may lead to polymer fume fever (24 to 48 hour influenza-like symptoms).
Ingestion	Ingestion of large quantities may cause nausea.

Other health hazard information

Animal data

LD50 value	Not known.
LC50 value	Not known.

Carcinogenic No.

SECTION 12 ECOLOGICAL INFORMATION

No data currently available.

SECTION 13 DISPOSAL CONSIDERATIONS

Incinerate in suitable equipment. Dispose of in waste skip/authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15 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 1993 (CHIP).

Dangerous for supply	No.
Risk phrases	Not applicable.
Safety phrases	Not applicable.
Symbols	Not applicable.

SECTION 16 OTHER INFORMATION

The format of this data sheet complies with the requirements of ANSI Z400.1 and the EC Safety Data Sheets Directive (91/155/EEC).

Glossary: CAS - Chemical Abstract Services; LC - Lethal Concentration; LD - Lethal Dose; TLV - Threshold Limit Value.

Sources of data:

HSE SHW 397	Effects of mineral oil on the skin (cautionary notice).
HSE Guidance Note EH58	The carcinogenicity of mineral oils.
HSE HS(G)71	The storage of packaged dangerous substances.
HSE HS(G)51	The storage of flammable liquids in containers.
SI 1972/917	The highly flammable liquids and liquefied petroleum gases regulations 1972.
ECTOC Technical Report no. 26	The assessment of carcinogenic hazard for human beings exposed to methylene chloride (dichloromethane).
HSE Guidance Note EH62	Metalworking fluids - health precautions.
HSE Guidance Note EH44	Dust : general principles of protection.
HSE Guidance Note EH16	Isocyanates : toxic hazards and precautions.

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Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is important that you make your own determination of the material's suitability for your purpose before you use it. Edwards High Vacuum International accept no responsibility for damages of any nature resulting from the use of, or the reliance upon, this data sheet.
