

SAFETY DATA SHEET (SDS)

PRODUCT NAME : GREASE - FOMBLIN® CR 862

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product name: Fomblin CR 862 Grease
Other means of identification: None
Item numbers: H113-50-116

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

Identified uses: Lubricant
Uses advised against: None known

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

2. Hazards Identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

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

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2.3 Other hazards

PBT criteria: Not applicable

vPvB criteria: Not applicable

Other hazards which do not result in a classification: Not applicable

3. Composition/Information on Ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase / Hazard Statements*
Perfluorinated polyether oil	-	Not allocated	Not applicable	Not applicable
PTFE	-	Not allocated	Not applicable	Not applicable
Organic	-	Not allocated	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.

4. First Aid Measures

4.1 Description of first aid measures

Eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Seek medical attention if symptoms persist.

Skin: Remove any contaminated clothing. Wash skin with soap and plenty of water. Seek medical attention if symptoms persist.

Ingestion/Oral: If swallowed, give plenty of water to drink, and seek medical assistance. DO NOT give anything to drink to an unconscious person. Do not induce vomiting. Seek medical attention if symptoms persist.

Inhalation: Not expected. If high concentrations of mists or fumes are inhaled, remove to fresh air. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated. Seek immediate medical attention.

General advice: None.

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4.2 Most important symptoms and effect, both acute and delayed

Potential acute health effects:

Eyes: Not available.

Skin: Not available.

Ingestion / Oral: Not available.

Inhalation: Not available.

Over-exposure symptoms:

Eyes: Not available.

Skin: Not available.

Ingestion / Oral: Not available.

Inhalation: Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: DO NOT use high volume water jets. Direct water stream may cause violent frothing.

5.2 Special hazards arising from the substance or mixture

Fire and explosion hazard: Not available.

Hazardous combustion products: Not available.

5.3 Advice for fire-fighters

Special precautions for fire-fighters: Not available.

Special protective equipment for fire-fighters: Fire-fighters should 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.

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6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate non-essential staff, or those not equipped with individual protection apparatus. Turn leaking containers leakerside up to prevent the escape of the product. Avoid inhalation and contact with skin and eyes.

For emergency responders: None.

6.2 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.

6.3 Methods and material for containment and cleaning up

Put on the necessary personal protective clothing: see Section 8. Exercise caution; the area of the spill area may be slippery. Extinguish all ignition sources and evacuate the area. Absorb material onto vermiculite 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.

7. Handling and Storage

7.1 Precautions for safe handling

Ensure Personal Protective Equipment is used whenever handling the product, see Section 8. Avoid eating, drinking and smoking 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

No special storage conditions required. DO NOT store together with food. Store in original, sealed containers protected from direct sunlight in a dry, cool, well ventilated area away from oxidising agents and sources of ignition.

7.3 Specific end use(s)

Not available.

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8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredient	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Perfluorinated polyether oil	Not applicable	Not applicable	Not applicable
PTFE	Not applicable	Not applicable	Not applicable
Organic	Not applicable	Not applicable	Not applicable

8.2 Exposure controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

Individual protection measures:

Eye/Face Protection: Safety glasses with side shields that conform to EN166.

Hand/Skin Protection: For prolonged or repeated contact, use protective gloves conforming to EU Directive 89/686/EEC and EN 374.

Respiratory Protection: Use of an personal respirator and approved filter.

Hygiene Measures: Wash face, hands and any exposed skin thoroughly after handling. Immediately remove all soiled and contaminated clothing.

Other/General Protection: None.

Environmental exposure controls:

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.

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	White paste	Melting point / freezing point	Not available	°C / °F
Odour	Odourless	Initial boiling point and boiling range	Not applicable	°C / °F
Odour threshold	Not available	Flash point	Not applicable	°C / °F
pH	Not available	Upper/lower flammability or explosive limits	Not available	°C / °F
Evaporation rate	Not available	Vapour pressure	< 0.001 @ 20 °C	hPa
Flammability (solid, gas)	Non-flammable	Vapour density	1.90 @ 20 °C	g/cm ³
Solubility(ies)	Insoluble	Relative density	Not available	g/cm ³
Partition coefficient: n-octanol/water	Not available	Auto-ignition temperature	Not available	°C / °F
Explosive properties	Non-explosive	Decomposition temperature	> 290 / 554	°C / °F
Oxidising properties	Non-oxidising	Viscosity	Not available	cSt

9.2 Other information

Not applicable.

10. Stability and Reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

None under normal conditions of use.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

Toxic pyrolysis products.

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11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:	Not available.
Irritation:	Not available.
Corrosivity:	Not available.
Sensitisation:	Not available.
Repeat dose toxicity:	Not available.
Carcinogenicity:	Not available.
Mutagenicity:	Not available.
Specific Target Organ Toxicity (STOT) - single exposure:	Not available.
STOT - repeated exposure:	Not available.
Aspiration hazard:	Not available.
Toxicity for reproduction:	Not available.

11.2 Information on likely routes of exposure

Not available.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

Eye Effects:	Not available.
Skin Effects:	Not available.
Ingestion/Oral Effects:	Not available.
Inhalation Effects:	Not available.

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

Not available.

11.5 Other information

Not available.

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12. Ecological Information

There are no known incidents of ecological damage, nor would be this be expected in normal use.

12.1 Toxicity

Polyurea Not available.

Ester oil Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No known adverse effects.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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14. Transport Information

14.1 UN number

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

14.2 UN proper shipping name

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

14.3 Transport hazard class

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

14.4 Packing group

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

14.5 Environmental hazards

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

14.6 Special precautions for user

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

Not applicable.

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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 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

German Federal Water Management Act: Water contaminating class - Not available

United States

All 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: Not available.

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

15.2 Chemical safety assessment

Not available.

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	0	Flammability	0	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

- Kluber Lubrication 'Fomblin CR 862' Material Safety Data Sheet - EN. Reviewed on 12.03.2013.

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; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; Chemtrec - Chemical Transportation Emergency Center (US); DSL - Domestic Substances List; EC - Effective Concentration; EH40 (UK) - HSE Guidance Note EH40 Occupational exposure limits; EPCRA - Emergency Planning and Community Right-to-Know Act; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; HMIS - Hazardous Material Information Service; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration, US department of Labour; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent, Very Bioaccumulative; PEL - Permissible exposure limit; RID - European Agreement concerning the International Carriage of Dangerous Goods by Rail; 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.

16.5 Revisions:

February 2012 - Data Sheet updated to reflect the latest regulatory information.

November 2012 - European and US Contact Details updated.

July 2013 - Data Sheet updated to conform to Regulation (EC) No 1907/2006 (as amended by Regulation No 453/2010) and GHS.

December 2013 - Global formatting updates

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

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