



1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name: Fomblin RT15 Grease**
- **Article number:** AGB7299
- **Relevant identified uses of the substance or mixture and uses advised against**
RT 15 is suitable for lubricating mechanical parts requiring boundary (extreme pressure) lubricating properties.
- **Application of the substance / the preparation:** No further information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agar Scientific
Elektron Technology UK Ltd
Parsonage Lane
Stansted CM24 8GF
United Kingdom
sales@agarscientific.com
Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **Emergency telephone number:** 24 hours: +44 (0)1856 407333

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

9002-84-0	Polytetrafluoroethylene PTFE	80 (PFPE sltn)%
	Perfluoropolyether PFPE	NA%
	PTFE thickened fully fluorinated fluids (perfluoropolyether PTFE)	20%

- **Additional information:**

Eye Effects: May cause stinging.

Skin Effects: None, except on prolonged or repeated exposure, which may lead to dermatitis.

Oral Effects: Ingestion of large quantities may lead to nausea.

Inhalation Effects: 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).


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4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Not applicable in normal use.
- **After skin contact:** Wash thoroughly with soap and water.
- **After eye contact:**
Flush with water for at least 10 minutes. If irritation persists, refer for medical attention.
- **After swallowing:** DO NOT Induce vomiting. Obtain medical attention IMMEDIATELY.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Carbon dioxide, powder or foam. DO NOT use water jet.
- **For safety reasons unsuitable extinguishing agents:** DO NOT use water jet.
- **Special hazards arising from the substance or mixture**
Exposure to high temperatures will produce acrid and toxic thermal decomposition products.
- **Advice for firefighters**
- **Protective equipment:**
Use self-contained breathing apparatus where large quantities are involved.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Immediately wipe up. Remove any residue with fluorinated solvents.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
DO NOT smoke while using the product. Wash hands thoroughly before smoking. When a grease gun is used, take care not to inject grease under the skin.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Minimum temperature 0 °C, maximum temperature 40 °C.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
Local exhaust ventilation not required in normal use. Mechanical ventilation not required in normal use.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
DO NOT eat or smoke whilst using the product. Wash hands before eating or smoking.
- **Respiratory protection:**
No specific measures required under normal conditions, avoid inhaling fumes at elevated temperatures.
- **Protection of hands:** Use plastic gloves where necessary, or a good quality barrier cream.
- **Material of gloves** Plastic.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Use safety glasses.
- **Body protection:** Overalls should be laundered regularly.

9 Physical and chemical properties

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|--|---|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | Soft white paste |
| · Form: | Pasty |
| · Colour: | White |
| · Odour: | Not determined. |
| · Odour threshold: | Not determined. |
| · pH-value: | Neutral |
| · Change in condition | |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | Undetermined. |
| · Flash point: | > 200 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | >200 °C |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Vapour pressure at 20 °C: | 6.7E-9 hPa |

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· Density at 20 °C:	2 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	<5 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Stable in normal conditions of use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid heating above 260 °C.
- **Incompatible materials:** Avoid alkaline metals and ammonia.
- **Hazardous decomposition products:**
Thermal decomposition products, Hydrogen Fluoride (TLV/TWA 2.5 mg/m³), Carbonyl Fluoride (TLV/TWA 5 mg/m³)
- **Additional information:** Does not polymerise.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** None, except on prolonged or repeated exposure, which may lead to dermatitis.
- **on the eye:**
No irritating effect.
May cause stinging.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
Ingestion of large quantities may lead to nausea.
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)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

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- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Incinerate in suitable equipment. Dispose of in waste skip/authorised landfill.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	Not Applicable.
· UN proper shipping name	Not Applicable.
· Transport hazard class(es)	Not Applicable.
· Packing group	Not Applicable.
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	The product is not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
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 1994 (CHIP).
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard-determining components of labelling:**
The product is not classified as dangerous to supply.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- **Department issuing MSDS:** Sales department
- **Contact:**
sales@agarscientific.com
Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)

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