

SAFETY DATA SHEET

FOMBLIN[®] GREASE RT 15

Updating:

Ref: [rt-15 - safety data sheet](#)

Deleted: fom0325e

COMPANY IDENTIFICATION

Company: AUSIMONT S.p.A.
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Emergency Calls

Telephone Number: 02-3835- 1

1) COMPOUND IDENTIFICATION

Trade Name: **FOMBLIN[®] GREASE RT 15**
Chemical Description: Preparation based on perfluoropolyethers and polytetrafluoroethylene
Molecular Weight n.a. Empirical Formula:

Structural Formula: $\text{CF}_3\text{-O-}(\text{CF-CF}_2\text{-O})_n\text{-(CF}_2\text{-O)}_m\text{-CF}_3$ + $(\text{C}_2\text{F}_4)_n$
|
CF₃ perfluoropolyether Algoflon PTFE

CAS Name: not assigned
CAS Number : not assigned EEC Number: not assigned
EINECS Number: not assigned ELINCS Number: not assigned

2) COMPOSITION/INFORMATION ON INGREDIENTS

Composition of the preparation

-Base oil perfluoropolyether CAS N°= 69991-67-9
-Thickener Algoflon – PTFE CAS N°= 9002-84-0

Substances with established exposure limits or classifiable as dangerous according to EC Directive 67/548 and following amendments, in concentration equal or higher than that reported in EC Directive 88/379 (item 3, sect. 6):

<u>Name</u>	<u>Conc.</u>	<u>CAS N°</u>	<u>Symbol</u>	<u>Risk Phrases</u>
none				

3) HAZARDS IDENTIFICATION

Adverse human health effects The product, when properly handled, according to the good working and hygienic practices, is not dangerous for the human health.
Environmental effects The product, when properly handled, according to the good working and hygienic practices, is not dangerous for the environment.
Physical and chemical hazards Harmful effects in case of thermal decomposition, due to heating or fire, for the emission of toxic and corrosive gases.

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4) FIRST-AID MEASURES

Symptomatology following exposure

<u>Eye contact</u>	Redness, irritation.
<u>Skin contact</u>	Redness, irritation.
<u>Ingestion</u>	Abdominal pain, nausea, vomit.
<u>Inhalation</u>	Not applicable

First Aid Measures

<u>Eye contact</u>	Wash with plenty of water for at least 15 minutes.
<u>Skin contact</u>	Wash with water and soap.
<u>Ingestion</u>	Give some glasses of water to drink. Induce vomiting. Seek medical advice in case of persistent pain.
<u>Inhalation</u>	Not applicable

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5) FIRE FIGHTING MEASURES

Specific hazards	The product is not flammable and not explosive.
Specific methods	Stay upwind and at safety distance from flames. In case of surrounding fire, remove the containers, when possible to do so in safe conditions. In case of fire keep containers cool by spraying with water.
Extinguishing media	Water, powders, foams, chemicals, CO ₂ .
Protection of fire-fighters	Self-contained breathing apparatus. Protective clothing for skin and eyes against corrosive vapours.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions	Stop the release in safe conditions as soon as possible. Avoid the contact of the released product with ignition sources or hot surfaces. Possible risk only in case of thermal decomposition of the released product.
Environmental precautions	Avoid the discharge of the released product in sewage systems, in surface and underground waters, in the soil.
Methods for cleaning up	Absorb the released liquid with earth, sand or sawdust. Collect it in suitable containers for disposal.

7) HANDLING AND STORAGE

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HANDLING

Precautions

Avoid heating the product above its decomposition temperature (290°C).

Technical measures

Provide working areas with adequate ventilation systems and with water-wash facilities (eye-bath and emergency showers).

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STORAGE

Storage conditions

Keep away from heat sources.

Keep away from combustible and explosive materials.

Keep away from incompatible substances (see sect. 10).

Packaging

Product usually stored in polyethylene containers.

Recommended materials

Metal, plastic, glass.

Non suitable materials

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Threshold limits of by-products from thermal decomposition (ACGIH 1998):

HF	TLV/CEILING	2.6 mg/mc	3 ppm
COF₂	TLV/STEL	13.5 mg/mc	5 ppm

Engineering Measures

Provide working area with adequate ventilation/aspiration systems.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

Not necessary in normal use, self-contained breathing apparatus in case of fire.

Eye protection

Safety goggles.

Hand protection

Rubber gloves.

Skin and body protection

Work suit or rubber apron.

Hygiene measures

Do not drink, eat and smoke during handling.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state	grease
Colour:	white
Odour:	odourless
Melting point:	Not available
Boiling point:	Not available
Flashpoint:	not flammable
Explosion properties:	not explosive
Oxidising properties:	not oxidiser
Vapour pressure (20 °C.):	10 ⁻¹³ mmHg
Vapour density:	Not available
Density:	1.9 g/ml
Solubility in water:	not soluble
Solubility in organic solvents:	partially soluble in fluorinated solvents

10) STABILITY AND REACTIVITY

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Stability: The product is stable in normal conditions of use and storage.

Conditions to avoid: Avoid heating the product above 290°C.
Avoid contact with flames.

Materials to avoid: Strong alkaline compounds (alkaline hydroxides, ammonia, and non-aqueous alkalis).
Lewis acids (AlCl₃, SbF₅, CoF₃) above 100°C.
Powdered magnesium, aluminium and their alloys above 100°C.

Hazardous decomposition products: The product may decompose at temperature above 290°C with emission of HF and COF₂, which are toxic and corrosive gases; the decomposition is promoted by metals, so in presence of titanium and its alloys the decomposition temperature lowers at 260°C.

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11) TOXICOLOGICAL INFORMATION

Penetration routes Contact or ingestion of the product.
Inhalation of gases from thermal decomposition.

Adverse effects for the Human Health
Delayed and/or immediate effects after short and/or prolonged exposure:

Acute toxicity: no known effect
Local effects / irritating power: “ “ “
Sensitisation: “ “ “
Chronic toxicity: “ “ “

Carcinogenicity: The product is not listed as potential carcinogen by National and International Agencies or Competent Authorities

Mutagenicity: The product is not listed as potential mutagenic by National and International Agencies or Competent Authorities

Reproduction toxicity: The product is not listed as potential reprotoxic agent by National and International Agencies or Competent Authorities

Experimental toxicological data
no available data

12) ECOLOGICAL INFORMATION

Environmental effects

- Mobility: no available data
- Persistence/degradability: no available data
- Bioaccumulation: no available data

Ecostability data no available data
Ecotoxicity data no available data

EVALUATION Use the product according to the good working practice, avoiding polluting the environment.

13) DISPOSAL CONSIDERATIONS

Waste treatment Send waste product to thermal destruction, using high-temperature incinerators designed to burn fluorine compounds.

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Packaging treatment Reuse, when possible, the containers, after thorough washing.
Send the waste containers to authorised landfills, according to local laws and regulations.

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14) TRANSPORT INFORMATION

Specific hazards Product not dangerous for transportation.
Packaging information Product usually shipped in polyethylene containers of different capacities (drums, jerricans, tanks).

INTERNATIONAL TRANSPORT CLASSIFICATION

U.N. Number: not assigned
Packaging group: not assigned
ADR/RID, IMDG/IMO, not classified
ICAO/IATA

15) REGULATORY INFORMATION

CEE Regulations (Directive 67/548 and following amendments)

Classification

Classification type: not required
Hazard class: none

Labelling

Trade Name: **FOMBLIN[®] GREASE RT 15**

Hazard Symbol: none

Risk phrases (R) none

Safety phrases (S) none

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TSCA Status

All components are listed on the Toxic Substances Control Act-Section 8(b) Chemical Inventory

International Regulations

All components are listed on the chemical inventories of the following countries:
Japan (ENCS), Australia (AICS), Canada (DSL), Korea (ECL)

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16) OTHER INFORMATION

BIBLIOGRAPHY

- Ausimont internal data
- Databanks: IUCLID (1996), RTECS (1999), HSDB (1999), CHRIS (1999)

Safety Data Sheet according to EC Directive 93/112

The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing.

The Company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control.