

# Safety data sheet

according to UK REACH

# Astemo

Mobility Beyond

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Version number 3 (replaces version 2)

Revision: 30.10.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Glow Plug Connector Grease
- **Article number:**  
134100 Tube 10 g  
134101 Tube 100 g
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Grease
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Astemo Aftermarket Germany GmbH  
Eugen-Gerstenmaier-Str. 8  
32339 Espelkamp  
Deutschland/Germany  
Tel: +49 5772/567-890  
Telefax: +49 5772/567-800
- **Informing department:** E-Mail: [emea.af@astemo.com](mailto:emea.af@astemo.com)
- **1.4 Emergency telephone number:**  
Phone +49 5772 567-890  
(Office hours 9:00 - 16:00)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
perfluoropolyether
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

(Contd. on page 2)

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**Trade name: Glow Plug Connector Grease**

(Contd. from page 1)

· **Precautionary statements**

- P261 Avoid breathing vapours.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

- **Description:** Mixture of the substances listed below including additives not requiring identification.

· **Dangerous components:**

|                      |                                                            |           |
|----------------------|------------------------------------------------------------|-----------|
| CAS: 69991-67-9      | perfluoropolyether                                         | 50 - 100% |
| EC number: 615-044-1 | ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 |           |

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

- **General information** No special measures required.

· **After inhalation**

Move person to fresh air.  
Seek medical treatment in case of complaints.

· **After skin contact**

Wash with water and soap.  
If skin irritation continues, consult a doctor.  
Remove contaminated clothing.  
Wash contaminated clothing before re-use.

· **After eye contact**

Rinse opened eye for several minutes under running water.  
Remove contact lenses if possible.  
In case of permanent aches and pains please go and see the doctor.

· **After swallowing**

Rinse out mouth with water.  
In case of persistent symptoms consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**Trade name: Glow Plug Connector Grease**

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## **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**  
During incomplete combustion carbon monoxide can be formed.  
Can be released in case of fire:  
Hydrogen fluoride (HF)  
Inhalation of combustion gases may cause serious health hazards.  
Fluorohydrocarbons
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear breathing protection if necessary.
- **Additional information**  
Remove goods in stock from incendiary zone, if possible.  
Provide for sufficient reservoirs for water for fire fighting.

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.
- **For non-emergency personnel** No special measures required.
- **For emergency responders** Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Allow to solidify. Collect mechanically.  
Dispose of the material collected according to regulations.  
Complete cleaning with water.
- **6.4 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 information on disposal.

## **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Don't eat, drink or smoke while working.  
Avoid contact with eyes, skin and clothes.
- **Information about protection against explosions and fires:**  
No special measures required.  
The product forms flammable fumes when heated.
- **Handling**  
Avoid contact with the eyes and skin.  
Wash hands during breaks and at the end of the work.  
Do not eat or drink while working.  
Wash contaminated clothing before re-use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Store only in the original container.

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**Trade name: Glow Plug Connector Grease**

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not required.
- **Hand protection**



Synthetic rubber gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

In case of a layer thickness of 0.3 mm the penetration time is longer than 480 minutes.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**



Tightly sealed safety glasses.

- **Body protection:**



Protective work clothing.

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**Trade name: Glow Plug Connector Grease**

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## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

|                                                     |                                    |
|-----------------------------------------------------|------------------------------------|
| · General Information                               |                                    |
| · Physical state                                    | Solid                              |
| · Colour:                                           | White                              |
| · Odour:                                            | odourless                          |
| · Odour threshold:                                  | Not determined.                    |
| · Melting point/freezing point:                     | Not applicable                     |
| · Flammability                                      | Not applicable.                    |
| · Lower and upper explosion limit                   |                                    |
| · Lower:                                            | Not determined.                    |
| · Upper:                                            | Not determined.                    |
| · Flash point:                                      | Not applicable                     |
| · Decomposition temperature:                        | Not determined.                    |
| · SADT                                              |                                    |
| · pH                                                | Mixture is non-soluble (in water). |
| · Viscosity:                                        |                                    |
| · Kinematic viscosity                               | Not determined.                    |
| · dynamic:                                          | Not determined.                    |
| · Solubility                                        |                                    |
| · Water:                                            | Insoluble                          |
| · Partition coefficient n-octanol/water (log value) | Not determined.                    |
| · Vapour pressure:                                  | Not determined.                    |
| · Density and/or relative density                   |                                    |
| · Density at 20 °C                                  | >1.9 g/cm <sup>3</sup>             |
| · Relative density                                  | Not determined.                    |
| · Vapour density                                    | Not determined.                    |
| · Particle characteristics                          | No further details.                |

|                                                                                 |                                            |
|---------------------------------------------------------------------------------|--------------------------------------------|
| · 9.2 Other information                                                         | No further relevant information available. |
| · Appearance:                                                                   |                                            |
| · Form:                                                                         | Solid                                      |
| · Important information on protection of health and environment, and on safety. |                                            |
| · Self-inflammability:                                                          | Product is not selfigniting.               |
| · Explosive properties:                                                         | Product is not explosive.                  |
| · Solvent content:                                                              |                                            |
| · Organic solvents:                                                             | 0.0 %                                      |
| · Change in condition                                                           |                                            |
| · Evaporation rate                                                              | Not determined.                            |

### · Information with regard to physical hazard classes

|                                         |      |
|-----------------------------------------|------|
| · Explosives                            | Void |
| · Flammable gases                       | Void |
| · Aerosols                              | Void |
| · Oxidising gases                       | Void |
| · Gases under pressure                  | Void |
| · Flammable liquids                     | Void |
| · Flammable solids                      | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids                    | Void |
| · Pyrophoric solids                     | Void |

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**Trade name: Glow Plug Connector Grease**

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|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.  
Danger of toxic fluorine based pyrolysis products.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

**69991-67-9 perfluoropolyether**

|            |      |                      |
|------------|------|----------------------|
| Oral       | LD50 | > 25,650 mg/kg (Rat) |
| Dermal     | LD50 | > 5,000 mg/kg (Rat)  |
| Inhalative | LC50 | 2,442 mg/l/4h (Rat)  |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

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Trade name: **Glow Plug Connector Grease**

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## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**  
Based on previous experience, this product is inert and non-degradable.  
The product contains a long-chain, very poorly degradable fluorocarbon.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
The waste code numbers mentioned are recommendations based on the probable use of the product.

|                                   |                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------|
| · <b>European waste catalogue</b> |                                                                                          |
| 12 00 00                          | WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS |
| 12 01 00                          | wastes from shaping and physical and mechanical surface treatment of metals and plastics |
| 12 01 12*                         | spent waxes and fats                                                                     |
| HP4                               | Irritant - skin irritation and eye damage                                                |
| HP5                               | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity                                |

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

|                                          |      |
|------------------------------------------|------|
| · <b>14.1 UN number or ID number</b>     |      |
| · <b>ADR/RID, ADN, IMDG, IATA</b>        | Void |
| · <b>14.2 UN proper shipping name</b>    |      |
| · <b>ADR/RID, ADN, IMDG, IATA</b>        | Void |
| · <b>14.3 Transport hazard class(es)</b> |      |
| · <b>ADR/RID, ADN, IMDG, IATA</b>        |      |
| · <b>Class</b>                           | Void |
| · <b>14.4 Packing group</b>              |      |
| · <b>ADR/RID, IMDG, IATA</b>             | Void |

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**Trade name: Glow Plug Connector Grease**

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|                                                                       |                                                      |
|-----------------------------------------------------------------------|------------------------------------------------------|
| · <b>14.5 Environmental hazards:</b>                                  |                                                      |
| · <b>Marine pollutant:</b>                                            | No                                                   |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                                      |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                            | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>                                       | Void                                                 |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

|                                          |
|------------------------------------------|
| · <b>Regulated explosives precursors</b> |
| None of the ingredients is listed.       |

|                                    |
|------------------------------------|
| · <b>Regulated poisons</b>         |
| None of the ingredients is listed. |

|                                           |
|-------------------------------------------|
| · <b>Reportable explosives precursors</b> |
| None of the ingredients is listed.        |

|                                    |
|------------------------------------|
| · <b>Reportable poisons</b>        |
| None of the ingredients is listed. |

- **Chemical safety assessment**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**

|                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|
| · <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b> |
| None of the ingredients is listed.                                                                                      |

|                                                      |
|------------------------------------------------------|
| · <b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b> |
| None of the ingredients is listed.                   |

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**\* SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.
- **Classification according to Regulation (EC) No 1272/2008** Calculation method

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**Trade name: Glow Plug Connector Grease**

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· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

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