

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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

#### 1.1 Product identifier

Trade name	: AeroShell Fluid 602
Product code	: 001A0909
Unique Formula Identifier (UFI)	: 23R0-G0C9-700Y-0ECW

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

Use of the Substance/Mixture	: Synthetic hydrocarbon coolant fluid for aircraft electronics., For further details consult the AeroShell Book on <a href="http://www.shell.com/aviation">www.shell.com/aviation</a> .
Uses advised against	: This product must be used, handled, and applied in accordance with the requirements of the equipment manufacturer's manuals, bulletins and other documentation. This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: <b>Shell Italia Oil Products SRL</b> Via Vittor Pisani 16 I-20124 Milano MI
Telephone	: (+39) 0200695000
Telefax	: (+39) 022484260
Contact for Safety Data Sheet	: If you have any enquiries about the content of this SDS please email <a href="mailto:lubricantSDS@shell.com">lubricantSDS@shell.com</a>

#### 1.4 Emergency telephone number

: SHELL: (+39 02 3800.4461/2 (available 24h a day)  
Poison Centers (CAV) eligible for access to information for health emergency response:  
CAV Osp. Bambin Gesù Roma 06 68593726; CAV Policlinico "Umberto I" Roma 06-49978000;  
CAV Policlinico "A. Gemelli" Roma 06 3054343; CAV Milano 02 66101029; CAV Bergamo 800883300;  
CAV Pavia 0382 24444; CAV Verona 800011858; CAV Firenze 055 7947819; CAV Napoli 081 5453333;  
CAV Foggia 800183459.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, Inhalation      H332: Harmful if inhaled.

Aspiration hazard, Category 1      H304: May be fatal if swallowed and enters airways.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :  
PHYSICAL HAZARDS:  
Not classified as a physical hazard according to CLP criteria.  
HEALTH HAZARDS:  
H332 Harmful if inhaled.  
H304 May be fatal if swallowed and enters airways.  
ENVIRONMENTAL HAZARDS:  
Not classified as environmental hazard according to CLP criteria.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
Contains low viscosity polyalphaolefins.

#### 2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
Used oil may contain harmful impurities.  
Not classified as flammable but will burn.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Blend of polyolefins and additives.

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Polyolefin	68649-11-6 500-228-5 01-2119493069-28	Asp. Tox. 1; H304 Acute Tox. 4; H332	95 - 100
Alkylphenol	118-82-1 204-279-1 01-2119970557-25	Aquatic Chronic 4; H413	1 - 3

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Protection of first-aiders : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

If inhaled : Call emergency number for your location / facility.

Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to the nearest medical facility.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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|-------------------------|--|
| In case of skin contact | : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.<br>If persistent irritation occurs, obtain medical attention.  |
| In case of eye contact  | : Flush eye with copious quantities of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If persistent irritation occurs, obtain medical attention.   |
| If swallowed            | : Call emergency number for your location / facility.<br>If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.<br>If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |

### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |
|----------|---|
| Symptoms | : If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.<br>The onset of respiratory symptoms may be delayed for several hours after exposure.<br>Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.<br>Ingestion may result in nausea, vomiting and/or diarrhoea. |
|----------|---|

### 4.3 Indication of any immediate medical attention and special treatment needed

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|-----------|--|
| Treatment | : Treat symptomatically.<br>Call a doctor or poison control center for guidance. |
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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|--------------------------------|--|
| Suitable extinguishing media   | : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Unsuitable extinguishing media | : Do not use water in a jet.   |

### 5.2 Special hazards arising from the substance or mixture

- |                                       |  |
|---------------------------------------|--|
| Specific hazards during fire-fighting | : Hazardous combustion products may include:<br>A complex mixture of airborne solid and liquid particulates and gases (smoke).<br>Carbon monoxide may be evolved if incomplete combustion occurs.<br>Unidentified organic and inorganic compounds. |
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

### 5.3 Advice for firefighters

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|---|---|--|
| Special protective equipment for firefighters | : | Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469). |
| Specific extinguishing methods                | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- |                      |   |   |
|----------------------|---|---|
| Personal precautions | : | 6.1.1 For non emergency personnel:<br>Avoid contact with skin and eyes.<br>6.1.2 For emergency responders:<br>Avoid contact with skin and eyes. |
|----------------------|---|---|

### 6.2 Environmental precautions

- |                           |   |   |
|---------------------------|---|---|
| Environmental precautions | : | Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. |
|---------------------------|---|---|

### 6.3 Methods and material for containment and cleaning up

- |                         |   |   |
|-------------------------|---|---|
| Methods for cleaning up | : | Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. |
|-------------------------|---|---|

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |   |   |
|-------------------------|---|---|
| Technical measures      | : | Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.<br>Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. |
| Advice on safe handling | : | Avoid prolonged or repeated contact with skin.<br>Avoid inhaling vapour and/or mists.   |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Product Transfer : Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage stability : Keep container tightly closed and in a cool, well-ventilated place.  
Use properly labeled and closable containers.  
Store at ambient temperature.

Packaging material : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.  
Suitable material: For containers or container linings, use mild steel or high density polyethylene.  
Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

### 7.3 Specific end use(s)

Specific use(s) : Not applicable

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Biological occupational exposure limits

No biological limit allocated.

### 8.2 Exposure controls

#### Engineering measures

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

Drain down system prior to equipment break-in or maintenance.  
Retain drain downs in sealed storage pending disposal or subsequent recycle.  
Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.  
Do not ingest. If swallowed, then seek immediate medical assistance

### Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.  
It is good practice to wear chemical resistant gloves.

Respiratory protection : No respiratory protection is ordinarily required under normal conditions of use.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [Type A/Type P boiling point > 65°C (149°F)] meeting EN14387 and EN143.

### SECTION 9: Physical and chemical properties

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

Physical state : Liquid at room temperature.

Colour : colourless

Odour : Slight hydrocarbon

Odour Threshold : Data not available

Melting point/freezing point : Data not available

pour point : -73 °C  
Method: Unspecified

#### Flammability

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Not classified as flammable but will burn.

#### Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit /  
upper flammability limit : Typical 10 %(V)

Lower explosion limit /  
Lower flammability limit : Typical 1 %(V)

Flash point : 158 °C  
Method: ASTM D92 (COC)

Auto-ignition temperature : > 320 °C

Decomposition temperature  
Decomposition temperature : Data not available

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

pH : Not applicable

Viscosity  
Viscosity, dynamic : Data not available

Viscosity, kinematic : 272 mm<sup>2</sup>/s (-40 °C)  
Method: ASTM D445

1140 mm<sup>2</sup>/s (-54 °C)  
Method: ASTM D445

1,71 mm<sup>2</sup>/s (100 °C)  
Method: ASTM D445

5,17 mm<sup>2</sup>/s (40,0 °C)  
Method: ASTM D445

Solubility(ies)  
Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : log Pow: > 6  
(based on information on similar products)

Vapour pressure : < 0,5 Pa (20 °C)  
estimated value(s)

Relative density : Typical 0,799 (15,6 °C)

Density : 799 kg/m<sup>3</sup> (15,6 °C)  
Method: Unspecified

Relative vapour density : > 5

### 9.2 Other information

Explosives : Classification Code: Not classified.

Oxidizing properties : Data not available

Flammability (liquids) : Not classified as flammable but will burn.

Evaporation rate : Data not available

Conductivity : This material is not expected to be a static accumulator.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

#### 10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

#### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

##### Acute toxicity

###### Product:

Acute oral toxicity : LD50 (rat): > 5.000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

Remarks: Aspiration into the lungs may cause chemical pneumonitis which can be fatal.

Acute inhalation toxicity : LC 50 (Rat): > 1 - < 5 mg/l  
Exposure time: 4 h  
Remarks: Harmful if inhaled.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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### **Components:**

#### **Polyolefin:**

Acute inhalation toxicity : Remarks: Mortality observed is due to aspiration of the material into the lungs, rather than intrinsic toxicity of the test substance. Acute toxicity caused by inhalation of this material is considered to be a highly unrealistic scenario in humans.

#### **Skin corrosion/irritation**

##### **Product:**

Remarks : Slightly irritating to skin.  
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.  
Based on available data, the classification criteria are not met.

#### **Serious eye damage/eye irritation**

##### **Product:**

Remarks : Slightly irritating to the eye.  
Based on available data, the classification criteria are not met.

#### **Respiratory or skin sensitisation**

##### **Product:**

Remarks : For respiratory and skin sensitisation:  
Not a sensitiser.  
Based on available data, the classification criteria are not met.

#### **Germ cell mutagenicity**

##### **Product:**

Genotoxicity in vivo : Remarks: Non mutagenic  
Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

#### **Carcinogenicity**

##### **Product:**

Remarks : Not a carcinogen.  
Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

Material	GHS/CLP Carcinogenicity Classification
Polyolefin	No carcinogenicity classification.
Alkylphenol	No carcinogenicity classification.

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### STOT - single exposure

#### Product:

Remarks : Based on available data, the classification criteria are not met.

### STOT - repeated exposure

#### Product:

Remarks : Based on available data, the classification criteria are not met.

### Aspiration toxicity

#### Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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|---------|---|--|
| Remarks | : | Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.<br>ALL used oil should be handled with caution and skin contact avoided as far as possible. |
| Remarks | : | Slightly irritating to respiratory system.   |
| Remarks | : | Classifications by other authorities under varying regulatory frameworks may exist.  |
| Remarks | : | Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).   |
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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

- |  |   |   |
|--|---|---|
| Toxicity to fish   | : | Remarks: LL/EL/IL50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met. |
| Toxicity to daphnia and other aquatic invertebrates                    | : | Remarks: LL/EL/IL50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met. |
| Toxicity to algae/aquatic plants                                       | : | Remarks: LL/EL/IL50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met. |
| Toxicity to fish (Chronic toxicity)                                    | : | Remarks: Based on available data, the classification criteria are not met.  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Remarks: Based on available data, the classification criteria are not met.  |
| Toxicity to microorganisms   | : | Remarks: Based on available data, the classification criteria are not met.  |

### 12.2 Persistence and degradability

#### **Product:**

- |                  |   |  |
|------------------|---|--|
| Biodegradability | : | Remarks: Not readily biodegradable.<br>Major constituents are inherently biodegradable, but contains components that may persist in the environment. |
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: Contains components with the potential to bioaccumulate.

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB..

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential.  
Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture.  
Causes physical fouling of aquatic organisms.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Do not dispose into the environment, in drains or in water courses.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Waste, spills or used product is dangerous waste.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local legislation

Waste catalogue :  
EU Waste Disposal Code (EWC):

Waste Code :  
13 02 06\*

Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Classification of waste is always the responsibility of the end user.

For the disposal of waste arising from the product, including empty containers not cleared, follow the Legislative Decree 152/06 and subsequent amendments.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.4 Packing group

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.5 Environmental hazards

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks	: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
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#### 14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Product is not subject to Authorisation under REACH.

Volatile organic compounds : Volatile organic compounds (VOC) content: 0 %

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Safeguard of health and safety in the workplaces refer to D.Lgs.81/2008 and subsequent amendments.

For waste disposal refer to D.Lgs.152/2006 and subsequent amendments.

#### The components of this product are reported in the following inventories:

REACH : Not established.

TSCA : All components listed.

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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### SECTION 16: Other information

#### Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.  
H332 : Harmful if inhaled.  
H413 : May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice	: Provide adequate information, instruction and training for operators.
Other information	: A vertical bar ( ) in the left margin indicates an amendment from the previous version.
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

### Classification of the mixture:

Acute Tox. 4	H332
Asp. Tox. 1	H304

### Classification procedure:

Expert judgement and weight of evidence determination.

Expert judgement and weight of evidence determination.

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title	: General use of lubricants and greases in vehicles or machin-
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
1.6	11.04.2023	800001000316	Print Date 12.04.2023

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ery.- Industrial

### Uses - Worker

Title : General use of lubricants and greases in vehicles or machinery.- Professional

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

### Exposure Scenario - Worker

<b>300000000170</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	General use of lubricants and greases in vehicles or machinery.- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC1, PROC2, PROC8b, PROC9 <b>Environmental Release Categories:</b> ERC4, ERC7, ATIEL-ATC SPERC 4.Bi.v1
<b>Scope of process</b>	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures applicable to all activities.	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)Use in closed process, no likelihood of expo-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

sure	
Initial factory fill of equipment Use in contained systems Use in closed, continuous process with occasional controlled exposure Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	No other specific measures identified.
Initial factory fill of equipment (open systems) Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours
Operation of equipment containing engine oils and similar. Use in contained systems Use in closed process, no likelihood of exposure	No other specific measures identified.
Equipment cleaning and maintenance Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	Drain down system prior to equipment opening or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature). Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	Drain down system prior to equipment opening or maintenance. Provide extract ventilation to emission points when contact with warm (>50°C) product is likely. Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage. Use in closed process, no likelihood of exposure Use in closed, continuous process with occasional controlled exposure	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version  
1.6

Revision Date:  
11.04.2023

SDS Number:  
800001000316

Date of last issue: 10.11.2022  
Print Date 12.04.2023

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### Section 3.1 - Health

The Risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.  
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

### Section 3.2 -Environment

No exposure assessment presented for the environment.

### SECTION 4

#### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

### Section 4.1 - Health

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

No exposure assessment presented for the environment.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

### Exposure Scenario - Worker

<b>300000000171</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	General use of lubricants and greases in vehicles or machinery.- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC1, PROC2, PROC8a, PROC8b, PROC20 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ATIEL-ATC SPERC 9.Bp.v1
<b>Scope of process</b>	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures applicable to all activities.	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Operation of equipment containing engine oils and	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version 1.6      Revision Date: 11.04.2023      SDS Number: 800001000316      Date of last issue: 10.11.2022  
Print Date 12.04.2023

similar. Use in contained systems Use in closed process, no likelihood of exposure	
Material transfers Non-dedicated facility Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities	Avoid carrying out activities involving exposure for more than 4 hours Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Equipment cleaning and maintenance Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities Heat and pressure transfer fluids in dispersive, professional use but closed systems	Drain down system prior to equipment opening or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage. Use in closed process, no likelihood of exposure Use in closed, continuous process with occasional controlled exposure	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The Risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product. The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>
No exposure assessment presented for the environment.

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## AeroShell Fluid 602

Version  
1.6

Revision Date:  
11.04.2023

SDS Number:  
800001000316

Date of last issue: 10.11.2022  
Print Date 12.04.2023

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No exposure assessment presented for the environment.
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