

SAFETY DATA SHEET

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

AeroShell Grease 64

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2024
2.11	20.03.2025	800010023407	Print Date 21.03.2025

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

1.1 Product identifier

Trade name	: AeroShell Grease 64
Product code	: 001F6601
Unique Formula Identifier (UFI)	: DKN0-T0AS-C00M-THG1

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

Use of the Substance/Mixture	: Synthetic grease for aircraft, containing molybdenum disulphide.
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	: Shell Italia Oil Products SRL 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 lubricantSDS@shell.com

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 Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : PHYSICAL HAZARDS:
Not classified as a physical hazard under GHS criteria.
HEALTH HAZARDS:
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS
criteria.

Precautionary statements : **Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protec-
tion/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and
soap.
P333 + P313 If skin irritation or rash occurs: Get medical
advice/ attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-
ter for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/
attention.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents/ container to an approved waste
disposal plant.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11 Revision Date: 20.03.2025 SDS Number: 800010023407 Date of last issue: 06.03.2024
Print Date 21.03.2025

Hazardous components which must be listed on the label:

Contains alkyl thiadiazole.
Contains Bismuth Naphthenate.
Contains dialkyl sulphide.

Sensitising components :

Contains naphthenic acid.
May produce an allergic reaction.

2.3 Other hazards

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

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.

High-pressure injection under the skin may cause serious damage including local necrosis.

Not classified as flammable but will burn.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : A lubricating grease containing polyolefins, synthetic esters and additives.

* contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82), 68649-12-7 (01-2119527646-33), 151006-60-9 (01-2119523580-47), 163149-28-8 (01-2119543695-30), 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 157707-86-3 (01-2119486452-34).

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
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SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

	Registration number		
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	Asp. Tox. 1; H304	0 - 60
Polyolefin	68649-11-6 500-228-5 01-2119493069-28	Asp. Tox. 1; H304 Acute Tox. 4; H332	1 - 5
Bismuth Naphthenate	85736-59-0 288-470-5 01-2120769500-56	Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	1,5 - 3
Highly refined mineral oil	8012-95-1 232-384-2 01-2119913301-55	Aquatic Chronic 4; H413	1 - 3
Reaction products of boric acid and calcium dihydroxide and lithium hydroxide	Not Assigned 701-453-3 01-2120772308-49	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d specific concentration limit Repr. 2; H361d 7,8 %	1 - 2,9
Alkaryl amine	68411-46-1 270-128-1 01-2119491299-23	Repr. 2; H361f	0,1 - 0,99
Alkyl thiadiazole	Not Assigned 948-020-7 01-2120792779-28	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Acute Tox. 4; H332 Aquatic Chronic 4; H413	0,1 - 0,9
Naphthenic acid	1338-24-5 215-662-8 01-2119552477-31	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	0,1 - 0,9
Dialkyl sulphide	822-27-5 212-494-7	Skin Irrit. 2; H315 Acute Tox. 4; H332 Skin Sens. 1A; H317 Aquatic Chronic 4; H413	0,1 - 0,9

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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

-
- incident, injury and surroundings.
- If inhaled : No treatment necessary under normal conditions of use.
If symptoms persist, obtain medical advice.
- In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.
If persistent irritation occurs, obtain medical attention.
- When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.
Obtain medical attention even in the absence of apparent wounds.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Transport to the nearest medical facility for additional treatment.
- If swallowed : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.
Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.
Ingestion may result in nausea, vomiting and/or diarrhoea.
- Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Notes to doctor/physician:
Treat symptomatically.
High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function.
Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2024
2.11	20.03.2025	800010023407	Print Date 21.03.2025

SECTION 5: Firefighting measures

5.1 Extinguishing media

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:
A complex mixture of airborne solid and liquid particulates and gases (smoke).
Carbon monoxide may be evolved if incomplete combustion occurs.
Unidentified organic and inorganic compounds.

5.3 Advice for firefighters

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:
Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions : Use appropriate containment to prevent uncontrolled release. 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 : Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

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.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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.
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.
Avoid inhaling vapour and/or mists.
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. |

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:

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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.

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.

Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur.

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 : Wear goggles for use against liquids and gas, combined with face shield.
Approved to EU Standard EN166.
Wear full face shield if splashes are likely to occur.
If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide adequate eye protection.

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 break-through 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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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 | : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.
Protective clothing approved to EU Standard EN14605. |
| Respiratory protection | : No respiratory protection is ordinarily required under normal conditions of use.
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. |
| Thermal hazards | : Not applicable |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|-----------------------------------------|-----------------------------------|
| Physical state | : Semi-solid at room temperature. |
| Colour | : dark grey |
| Odour | : Slight hydrocarbon |
| Odour Threshold | : Data not available |
| Drop point | : >= 220 °C
Method: ASTM D2265 |
| Melting / freezing point | : Not applicable |
| Initial boiling point and boiling range | : Data not available |

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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 : 215 °C
Method: ASTM D93 (PMCC)

Auto-ignition temperature : > 320 °C

Decomposition temperature
Decomposition temperature : Data not available

pH : Not applicable

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : Not applicable

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 : 0,870 (25 °C)

Density : 953 kg/m³ (15,0 °C)
Method: Unspecified

Relative vapour density : > 1
estimated value(s)

Particle characteristics

Particle size : Data not available

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

9.2 Other information

Explosive properties	:	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.

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.

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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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

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

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

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 or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : For skin sensitisation:
Skin sensitiser.

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

Components:

Naphthenic acid:

Remarks : May cause an allergic skin reaction in sensitive individuals.

Dialkyl sulphide:

Remarks : May cause an allergic skin reaction in sensitive individuals.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11 Revision Date: 20.03.2025 SDS Number: 800010023407 Date of last issue: 06.03.2024
Print Date 21.03.2025

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.

Material	GHS/CLP Carcinogenicity Classification
Polyolefin	No carcinogenicity classification.
Alkyl thiadiazole	No carcinogenicity classification.
Naphthenic acid	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.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

Aspiration toxicity

Product:

Not an aspiration hazard., Based on available data, the classification criteria are not met.

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:

Remarks : Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal.
ALL used grease should be handled with caution and skin contact avoided as far as possible.

Remarks : High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

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).

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: LL/EL/IL50 > 100 mg/l
Practically non toxic:
Based on available data, the classification criteria are not met.

Toxicity to daphnia and other aquatic invertebrates : Remarks: LL/EL/IL50 > 100 mg/l
Practically non toxic:
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 Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

Toxicity to algae/aquatic plants	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: 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. Major constituents are inherently biodegradable, but contains components that may persist in the environment.
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: Contains components with the potential to bioaccumulate.
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12.4 Mobility in soil

Product:

Mobility	:	Remarks: Semi-solid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water.
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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..
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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.
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SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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).

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 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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
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Waste catalogue

:

EU Waste Disposal Code (EWC):

Waste Code

:

12 01 12*

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.

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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11	Revision Date: 20.03.2025	SDS Number: 800010023407	Date of last issue: 06.03.2024 Print Date 21.03.2025
-----------------	------------------------------	-----------------------------	---------------------------------------------------------

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.

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
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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 %
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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.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2024
2.11	20.03.2025	800010023407	Print Date 21.03.2025

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.

SECTION 16: Other information

Full text of H-Statements

H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361d	: Suspected of damaging the unborn child.
H361f	: Suspected of damaging fertility.
H412	: Harmful to aquatic life with long lasting effects.
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
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

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

SAFETY DATA SHEET

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

AeroShell Grease 64

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2024
2.11	20.03.2025	800010023407	Print Date 21.03.2025

tional 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; TECL - 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:

Skin Sens. 1	H317
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Eye Irrit. 2	H319
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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 machinery. - Industrial
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Uses - Worker

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

Title	:	Use of lubricants and greases in open systems. - Industrial
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SAFETY DATA SHEET

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

AeroShell Grease 64

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2024
2.11	20.03.2025	800010023407	Print Date 21.03.2025

Uses - Worker

Title : Use of lubricants and greases in open systems.
- 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 Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

Exposure Scenario - Worker

300000000170	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	General use of lubricants and greases in vehicles or machinery.- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC8b, PROC9 Environmental Release Categories: ERC4, ERC7,
Scope of process	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.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for the environment.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
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).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.		
Contributing Scenarios	Risk Management Measures	
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 exposure	No other specific measures identified.	
Initial factory fill of equipmentUse in contained sys-	No other specific measures identified.	

SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

temsUse in closed, continuous process with occasional controlled exposure- Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	
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 systemsUse in closed process, no likelihood of exposure	No other specific measures identified.
Equipment cleaning and maintenanceTransfer 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 maintenanceOperation 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 (>50oC) 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 exposureUse in closed, continuous process with occasional controlled exposure	Store substance within a closed system.
Section 2.2	Control of Environmental Exposure
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
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.	

SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

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 Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

Exposure Scenario - Worker

300000000171	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	General use of lubricants and greases in vehicles or machinery.- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC8a, PROC8b, PROC20 Environmental Release Categories: ERC9a, ERC9b, ATIEL-ATC SPERC 9.Bp.v1
Scope of process	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.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for the environment.
Section 2.1	Control of Worker Exposure
Product Characteristics	
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).,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	
Contributing Scenarios	Risk Management Measures
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 similar. Use in contained systems Use in closed pro-	No other specific measures identified.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11 Revision Date: 20.03.2025 SDS Number: 800010023407 Date of last issue: 06.03.2024
Print Date 21.03.2025

cess, no likelihood of exposure	
Material transfersNon-dedicated facilityTransfer 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 maintenanceTransfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilitiesHeat 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 exposureUse in closed, continuous process with occasional controlled exposure	Store substance within a closed system.
Section 2.2	Control of Environmental Exposure
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
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 Grease 64

Version 2.11 Revision Date: 20.03.2025 SDS Number: 800010023407 Date of last issue: 06.03.2024
Print Date 21.03.2025

Exposure Scenario - Worker

300000000172	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use of lubricants and greases in open systems.- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC7, PROC8b, PROC9, PROC10, PROC13 Environmental Release Categories: ERC4, ATIEL-ATC SPERC 4.Ci.v1
Scope of process	Covers use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for the environment.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
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).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.		
Contributing Scenarios		Risk Management Measures
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. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

Material transfersManual- Transfer of substance or preparation (charging/ dis- charging) from/ to vessels/ large containers at dedicat- ed facilities	Avoid carrying out activities involving exposure for more than 1 hour.
Material transfersAutomat- ed process with (semi) closed systems.Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large con- tainers at dedicated facili- tiesTransfer of substance or preparation into small con- tainers (dedicated filling line, including weighing)	Ensure material transfers are under containment or extract ventilation.
Roller, spreader, flow appli- cationRoller application or brushing	Provide extraction ventilation at points where emissions oc- cur.
SprayingIndustrial spraying	Carry out in a vented booth or extracted enclosure. Wear chemically resistant gloves (tested to EN374) in combi- nation with specific activity training.
Treatment by dipping and pouringTreatment of arti- cles by dipping and pouring	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combi- nation with intensive management supervision controls.
Equipment cleaning and maintenanceTransfer of substance or preparation (charging/ discharging) from/ to vessels/ large con- tainers at dedicated facili- ties	Drain down system prior to equipment opening or mainte- nance. 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 combi- nation with specific activity training. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage.Use in closed pro- cess, no likelihood of expo- sureUse in closed, continu- ous process with occasion- al controlled exposure	Store substance within a closed system.
Section 2.2	Control of Environmental Exposure
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
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.	

SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

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 Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

Exposure Scenario - Worker

300000000173	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use of lubricants and greases in open systems.- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC8a, PROC10, PROC11, PROC13 Environmental Release Categories: ERC8a, ERC8d,
Scope of process	Covers use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for the environment.
Section 2.1	Control of Worker Exposure
Product Characteristics	
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).,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	
Contributing Scenarios	Risk Management Measures
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. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.

SAFETY DATA SHEET

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

AeroShell Grease 64

Version 2.11 Revision Date: 20.03.2025 SDS Number: 800010023407 Date of last issue: 06.03.2024
Print Date 21.03.2025

Material transfersManual- Transfer of substance or preparation (charging/ dis- charging) from/ to vessels/ large containers at non- dedicated facilities	Avoid carrying out activities involving exposure for more than 1 hour.
Roller, spreader, flow appli- cationRoller application or brushing	Provide a good standard of general ventilation. Natural venti- lation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out activities involving exposure for more than 4 hours Wear chemically resistant gloves (tested to EN374) in combi- nation with specific activity training.
SprayingNon industrial spraying	Provide a good standard of general ventilation. Natural venti- lation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out activities involving exposure for more than 1 hour. Wear a respirator conforming to EN140 with Type A/P2 filter or better. Wear suitable coveralls to prevent exposure to the skin. Wear chemically resistant gloves (tested to EN374) in combi- nation with specific activity training.
Treatment by dipping and pouringTreatment of arti- cles by dipping and pouring	Provide a good standard of general ventilation. Natural venti- lation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Equipment cleaning and maintenanceTransfer of substance or preparation (charging/ discharging) from/ to vessels/ large con- tainers at non-dedicated facilities	Drain down system prior to equipment opening or mainte- nance. Provide a good standard of general ventilation. Natural venti- lation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out activities involving exposure for more than 4 hours Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage.Use in closed pro- cess, no likelihood of expo- sureUse in closed, continu- ous process with occasion- al controlled exposure	Store substance within a closed system.
Section 2.2	Control of Environmental Exposure
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
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.	

SAFETY DATA SHEET

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

AeroShell Grease 64

Version
2.11

Revision Date:
20.03.2025

SDS Number:
800010023407

Date of last issue: 06.03.2024
Print Date 21.03.2025

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.