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

1.1 Product identifier	
Trade name	: AeroShell Ascender
Product code	: 001B2450

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

Use of the Sub- stance/Mixture	Synthetic lubricating oil for aircraft turbine engines., For for details consult the AeroShell Book on www.shell.com/aviation	
Recommended restrictions on use	This product must be used, handled and applied in accor ance with the requirements of the equipment manufacture manuals, bulletins and other documentation. This product must not be used in applications other than listed in Section 1 without first seeking the advice of the s plier.	er's those

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

Company	<ul> <li>Shell &amp; Turcas Petrol A.Ş.</li> <li>Karamancılar Is Merkezi Gulbahar Mh.</li> <li>Salih Tozan Sk.No:18bblk Esentepe-Sisli</li> <li>TR-34394 Istanbul</li> </ul>
Telephone	: (+90) 2124441502
Telefax	: (+90) 2123760600
E-mail address of person responsible for the SDS	: If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

## 1.4 Emergency telephone number

Emergency telephone num-	: (+90) 212 376 00 00
ber	National Poison Counselling Centre (UZEM) – 114

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification T.R. SEA No 28848

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

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Prepared according to the regulation on Safety Data Sheets regarding Hazardous substances and mixtures (R.G. 13/12/2014-29204).

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#### 2.2 Label elements

Labelling T.R. SEA No 28848 Hazard pictograms :	No Hazard Symb	ol required
Signal word :	No signal word	
Hazard statements :	H412	PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Harmful to aquatic life with long lasting ef- fects.
Precautionary statements :	Prevention: P273 Response: Storage: Disposal: P501	Avoid release to the environment. No precautionary phrases. No precautionary phrases. Dispose of contents/ container to an ap- proved waste disposal plant.
Sensitising components	: Contains alkaryl May produce an	amine. allergic reaction.

#### 2.3 Other hazards

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 synthetic esters and additives.

Chemical name	CAS-No. EC-No. Registration number	T.R. SEA No 28848	Concentration (% w/w)
Aryl amine	51772-35-1 257-406-8	Aquatic Chronic4; H413	1 - 3

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Triaryl phosphate	1330-78-5 215-548-8	Repr.2; H361f Aquatic Acute1; H400 Aquatic Chronic1; H410	1 - 2,4
4-(1-methyl-1- phenylethyl)-N-[4-(1- methyl-1- phe- nylethyl)phenyl]aniline	10081-67-1 233-215-5	Skin Sens.1B; H317 Aquatic Chronic4; 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 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 wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.			
In case of eye contact	<ul> <li>Flush eye with copious quantities of water.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>			
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	: 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.			
4.3 Indication of any immediate medical attention and special treatment needed				

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

Treatment

: Notes to doctor/physician: Treat symptomatically.

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## **SECTION 5: Firefighting measures**

5.1	Extinguishing media		
	Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, 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 t	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 meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin and eyes.

#### **6.2 Environmental precautions**

Environmental precautions	: Use appropriate containment to avoid environmental contami-
-	nation. 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	<ul> <li>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.</li> </ul>
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#### 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. 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 mate- rials in order to prevent fires.			
7.2 Conditions for safe storage, including any incompatibilities				
Other data :	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.			
	Store at ambient temperature.			
	Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.			
Packaging material :	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.			
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.

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#### 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.

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.

#### Personal protective equipment

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

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

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	thickness should be typically greater than 0.35 mm depending on the glove make and model.
Skin and body protection	<ul> <li>Skin protection is not ordinarily required beyond standard work clothes.</li> </ul>
	It is good practice to wear chemical resistant gloves.
Respiratory protection	: No respiratory protection is ordinarily required under normal conditions of use.
	In accordance with good industrial hygiene practices, precau- tions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentra- tions to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specif- ic conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropri- ate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].
Protective measures	: Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.
Thermal hazards	: Not applicable
Environmental exposure co	ontrols
General advice	: Take appropriate measures to fulfill the requirements of rele-

General advice	<ul> <li>Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.</li> <li>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.</li> </ul>
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# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance	: Liquid at room temperature.
Colour	: amber
Odour	: Slight hydrocarbon

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Odour Threshold	: Data not available
рН	: Not applicable
pour point	: <= -54 °C Method: Unspecified
Melting / freezing point	Data not available
Initial boiling point and boiling range	: > 280 °C estimated value(s)
Flash point	: 266 °C Method: Unspecified
Evaporation rate	: Data not available
Flammability (solid, gas)	: Data not available
Upper explosion limit	: Typical 10 %(V)
Lower explosion limit	: Typical 1 %(V)
Vapour pressure	: < 0,5 Pa (20 °C) estimated value(s)
Relative vapour density	: > 1 estimated value(s)
Relative density	: 0,990 (15 °C)
Density	: 990 kg/m3 (15,0 °C) Method: Unspecified
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)
Auto-ignition temperature	: > 320 °C
Decomposition temperature	: Data not available
Viscosity	

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Viscosity, dynamic	: Data not available
Viscosity, kinemati	c : 25,47 mm2/s (40,0 °C) Method: Unspecified
	5,02 mm2/s (100 °C) Method: Unspecified
	11724 mm2/s (-40 °C) Method: Unspecified
	<= 1200 mm2/s (-40 °C) Method: ASTM D2532
	5,02 mm2/s (100 °C) Method: ASTM D2532
	25,77 mm2/s (40,0 °C) Method: ASTM D2532
Explosive properties	: Not classified
Oxidizing properties	: Data not available
9.2 Other information 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.

0 / 10		
10.5 Incompatible materials		
<b>10.4 Conditions to avoid</b> Conditions to avoid	: Extremes of temperature and direct sunlight.	
<b>10.3 Possibility of hazardous read</b> Hazardous reactions	: Reacts with strong oxidising agents.	
Stable.	tions	
10.2 Chemical stability		

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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 toxicological effects

,	Skin and eye contact are the primary routes of exposure alt- hough exposure may occur following accidental ingestion.

# Acute toxicity

Product:	
Acute oral toxicity	<ul> <li>LD50 (rat): &gt; 5.000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.</li> </ul>
Acute inhalation toxicity	: Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 5.000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.</li> </ul>

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

#### Respiratory or skin sensitisation

#### Product:

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

#### Germ cell mutagenicity

#### Product:

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

### Carcinogenicity

#### Product:

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

Material	GHS/CLP Carcinogenicity Classification	
Aryl amine	No carcinogenicity classification.	
Triaryl phosphate	No carcinogenicity classification.	
4-(1-methyl-1-phenylethyl)-N- [4-(1-methyl-1- phenylethyl)phenyl]aniline	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.

## 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:

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

## **Further information**

#### Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The con-

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centration of such impurities will depend on use and they may present risks to health and the environment on disposal.

ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

ļ	Product:		
	Toxicity to fish (Acute toxici- ty)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
ä	Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
	Toxicity to algae (Acute tox- icity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
	Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
ä	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
	Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available
	Components:		
-	Triaryl phosphate:		
	M-Factor (Short-term (acute) aquatic hazard)	:	1
	M-Factor (Long-term (chron- ic) aquatic hazard)	:	1
12.2	Persistence and degradability	у	
ļ	Product:		
I	Biodegradability	:	Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains components that may persist in the environment.

#### 12.3 Bioaccumulative potential

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Bioaccumulation	: Remarks: Contains components with the potential to bioac- cumulate.	
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 sub- stances that are assessed to be a PBT or a vPvB	
12.6 Other adverse effects		
Product:		
Additional ecological infor- mation	: Remarks: Does not have ozone depletion potential, photo- chemical 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.	
	Remarks: Poorly soluble mixture. Causes physical fouling of aquatic organisms.	
SECTION 13: Disposal conside	prations	

## 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 meth- ods 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 dis- posed 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

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	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.

### **SECTION 14: Transport information**

14.1 UN number	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.2 UN proper shipping name	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.3 Transport hazard class(es)	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.4 Packing group	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.5 Environmental hazards	
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.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-		
ture		
Other regulations	: The regulatory information is not intended to be comprehen-	

Other regulations :	sive. Other regulations may apply to this material.
	Regulations on the health and safety precautions for chemi- cals in the workplace. Regulations on the fire protection of buildings. Regulations on the prevention of industrial acci- dents and the reduction of their effects.
The components of this produce	ct are reported in the following inventories:
REACH :	Notified with Restrictions.
TSCA :	All components listed.

## **SECTION 16: Other information**

Full text of other abbreviations         Aquatic Acute       : Short-term (acute) aquatic hazard         Aquatic Chronic       : Long-term (chronic) aquatic hazard
Repr.: Reproductive toxicitySkin Sens.: Skin sensitisation
SDS Author Name, Surname : Orkan Akbörü
Address : The Shell Company of Turkey Ltd Gülbahar Mh. Salih Tozan Sk. Karamancılar İş Merkezi No:18 B Blok 34394 Esentepe – Şişli / İstanbul
Certified Qualification date : 12 April 2021
Certificate number : GBF01.52.09

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Further information		
Training advice	:	Provide adequate information, instruction and training for op- erators.
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).

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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