# Safety Data Sheet (SDS)

Effective Date: February 1, 2021

--- In this revision, only our company information (address, Tel., Fax., E-mail) changed. No other change in this document. ---

1. IDENTIFICATION OF			
	THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING		
Material Name	: AEROSHELL TURBINE OIL 308		
Recommended Use			
Restricted Use	: Other than those above.		
Manufacturer/Supplier			
	1-11-1 Marunouchi, Chiyoda-ku, Tokyo, 100-6212 Japan		
Telephone/Fax	: Refer to end of this document.		
	<b>ne</b> : Refer to end of this document. (Japanese office hours only)		
Number	Quality Assurance Division		
SDS Code	: 410027		
000 0000	. +10027		
2. HAZARDS IDENTIFIC			
GHS Classification			
GHS Classification	Sensitisation, skin: Category 1 Hazardous to the aquatic environment, chronic toxicity: Category 2		
GHS Label Elements	Hazaldous to the aqualic environment, chronic toxicity. Category 2		
Symbol(s)			
	AK.		
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Signal Words	Warning		
	H317: May cause an allergic skin reaction		
	H411: Toxic to aquatic life with long lasting effects		
GHS Precautionary Sta			
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P272: Contaminated work clothing should not be allowed out of the workplace.		
	P273: Avoid release to the environment.		
	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
Response :	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.		
Response .			
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
	P302+P352: IF ON SKIN: Wash with plenty of water and soap.		
	P362+P364: Take off contaminated clothing. And wash it before reuse.		
Storen	P391: Collect spillage.		
Storage :	No precautionary phrases.		
Disposal :	P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance		
Unclossified Herord	with local and national regulations.		
	Please see Section 4 - 8 before use for Prevention/Response/Storage/Disposal.		
Information	Used oil may contain harmful impurities.		
	RMATION ON INGREDIENTS		
Substance or Mixture	: Mixture		
Chemical Description	: Mixture : Lubricating oil.		
	<ul> <li>: Mixture</li> <li>: Lubricating oil.</li> <li>n : Lubricant base oil 90-95%</li> </ul>		
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4. FIRST AID MEASURES	
General Information	: Not expected to be a health hazard when used under normal conditions.
Inhalation	<ul> <li>Remove casualty to fresh air and keep at rest in a position comfortable for breathing. Cover with blanket to keep warm and rest in a quiet surrounding. Seek immediate medical advice and attention.</li> </ul>
Skin Contact	: Wash skin with large amount of water using soap.
Eye Contact	<ul> <li>Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. After rinsing for a minimum of 15 minutes, seek medical advice and attention.</li> </ul>
Ingestion	: Without inducing vomiting, call a doctor for treatment. If mouth has been dirtied, clean with water.
Most Important	: If swallowed, may irritate mucous membrane of stomach and induce vomiting.
Symptoms/Effects, Acute & Delayed	Inhalation if mist may cause feeling ill. Skin contact and eye contact may cause irritation.
Immediate Medical Attention, Special Treatment	: Treat symptomatically. Call a doctor or poison control center for guidance.

### **5. FIRE FIGHTING MEASURES**

Clear fire area of all non-emo	ergency personnel.
Suitable Extinguishing Media	: Concentrated strong liquid in mist and powder forms, carbon dioxide and foam. Use powder and carbon dioxide may be used small fires only. Effective to use foam to shutdown the air in a large fires.
Unsuitable Extinguishing Media	: Do not use water in a jet.
Specific Hazards Arising from Chemicals	: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds
Fire fighting instructions	: Water the surrounding equipment to cool them down. Cordon off the affected place and its vicinity to all, except the concerned parties.
Protective Equipment & Precautions for Fighters	: Ensure to wear protective equipment and approach from windward.

## 6. ACCIDENTAL RELEASE MEASURES

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	eleased material. For guidance on selection of personal protective equipment see
Section 8 of this SDS. See S	ection 13 for information on disposal. Observe the relevant local and international
regulations.	
Personal Precautions,	: Avoid contact with skin and eyes. Prepare suitable equipment and materials.
Protective Equipment and	
Emergency Procedures	
Environmental	: Use appropriate containment to avoid environmental contamination. Prevent from
Precautions	spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. In event of entering in the sea, extend oil fences to prevent from spreading, and sop up with absorbent materials. Use chemicals and/or detergents, they must satisfy technical standards as set by the Ministry of Land, Infrastructure and Transport / Ministry of the Environment.
Methods and Material for	: Promptly remove all ignition sources and stop leakages. In a small leakage, absorb
Containment and Clean	and recover by use of soil, sand, sawdust and waste clothes. In a large leakage,
Up	cordon off the danger zone, prevent from entering and enclose it with sand bank and
-	stop outflow. Cover liquid surface with foam, and recover liquid into containers.
Additional Advice	: Local authorities should be advised if significant spillages cannot be contained.
7. HANDLING AND STORAG	ЭЕ
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HANDLING Technical Measures Ventilation Precautions Precautions for Safe Handling	<ul> <li>In handling this material over the allocated volume, ensure approval to meet requires of the laws. Keep away from heat, sparks, open flames, hot objects. No smoking. Take measures against static discharge. Ensure to wear clothing and shoes made of conductive materials. When fixing or processing machine, it carries out after removing dangerous objects completely. NEVER suck up (siphoning) this material by mouth. Wear suitable protect equipment if skin or eye contact may cause. Seal containers hermetically without handling in violent such as falling, dropping, or jolting.</li> <li>see Section 8</li> </ul>
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HANDLING Technical Measures Ventilation Precautions Precautions for Safe Handling STRAGE	<ul> <li>In handling this material over the allocated volume, ensure approval to meet requires of the laws. Keep away from heat, sparks, open flames, hot objects. No smoking. Take measures against static discharge. Ensure to wear clothing and shoes made of conductive materials. When fixing or processing machine, it carries out after removing dangerous objects completely. NEVER suck up (siphoning) this material by mouth. Wear suitable protect equipment if skin or eye contact may cause. Seal containers hermetically without handling in violent such as falling, dropping, or jolting.</li> <li>see Section 8</li> <li>Use under normal temperature. Prevent from mixing water and impurity. Avoid contact with halogens, strong acids, alkali and oxidizing materials.</li> </ul>

Technical Measures	All electrical appliances shall be explosion-proof types, and they all must be earthed.
Precautions for Safe	Avoid contact and storage in same place with halogens, strong acids, alkali and
Stroage	oxidizing materials.
Recommended Materials	Storage in original containers. Do not pressurize empty containers. May cause rupture. Do not weld, heat up, drill or cut containers. May ignite the residue and cause explosion.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Equipment	: Seal or install ventilations for mist occurs. Install eye shower and body shower near working site.
Standard Concentration	: Not specified
Control	
OSHA, Permissible	: 5mg/m <sup>3</sup> (as Oil mist, mineral)
Exposure Limits (PEL)	
Occupational Exposure	: Japan Society for Occupational Health(2012) <sup>(1)</sup> Data not available.
Limits	ACGIH(2012) TWA[Inhalable fraction.] <sup>(2)</sup> Data not available.
Protective Equipment	: Skin protection not ordinarily required beyond standard issue work clothes.
<b>Respiratory Protection</b>	: No respiratory protection is ordinarily required under normal conditions of use. Use appropriate equipment in response to the circumstances.
Hand Protection	: Use oil-proof protective hand gloves under prolonged or repeated skin contact.
Eye Protection	: Wear safety glasses or full face shield if splashes are likely to occur.
Skin and Body	: Use oil-proof/long sleeved clothing under prolonged usage.
Protection	
Appropriate Sanitary Measures:	: Remove immediately all contaminated clothing. Contaminated clothing must be laundered before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state	: Liquid at room temperature.
Colour	: Amber.
Odour	: Slightly odour.
Odour threshold	: Data not available.
рН	: Not applicable.
Pour point	: <-40°C
Initial Boiling Point	: Expected >250°C
Flash point	: ≥ 200°C (COC)
Evaporation rate	: Data not available.
Flammability (solid, gas)	: Not applicable.
Upper / lower Flammability or Explosion limits	: Typical 1 - 7 %(V) (based on mineral oil)
Vapour pressure	: Data not available.
Vapour density	: Data not available. Expected >1
Density	: Approx. 0.96g/cm <sup>3</sup> (15°C)
Solubility	: Water: Negligible.
n-octanol/water partition coefficient (log Pow)	: Data not available.
Auto-ignition temperature	: Data not available. Expected >320°C
Decomposition Temperature	: Data not available.

**10. STABILITY AND REACTIVITY** 

Chemical Stability	: Stable under normal condition.
Hazardous Reactivity	: Avoid contact with strong oxidizing agent.
Conditions to Avoid	: Avoid contact with halogens, strong acids, alkalis, and oxidizing materials.
Incompatible Materials	: Data not available.
Hazardous Decomposition	: Hazardous decomposition products are not expected to form during normal storage.
Products	Generates smoke, carbon monoxide, sulfurous acid gas etc. during combustion.

### **11. TOXICOLOGICAL INFORMATION**

Basis for Assessment	Information given is ba	ased on data on the components and the toxicology of similar
	of a whole product, ra	rwise, the data presented is representative of the main component ther than for individual component(s). Individual components off value is described on Section 3.
Acute Toxicity	1 Oral 2 Dermal	Expected to be of low toxicity: $LD_{50} > 5000 \text{ mg/kg}$ , $Rat^{(3)}$ Expected to be of low toxicity: $LD_{50} > 5000 \text{ mg/kg}$ , $Rabbit^{(3)}$
	3 Inhalation(Vapour) 4 Inhalation(Mist)	Data not available Low toxicity: $LC_{50} > 5 \text{ mg/l}$ , 4h, $Rat^{(3)}$
Skin Corrosion/Irritation		skin irritation (rabbit test). <sup>(3)</sup> Prolonged/repeated contact may cause which can lead to dermatitis.

Serious Eye	: Not classified as an eye irritation (rabbit test). <sup>(3)</sup> Capable of slightly irritating.
Damage/Irritation	
Respiratory or Skin	: No data available concerning respiratory sensitisation.
Sensitisation	Not expected to be a skin sensitiser. <sup>(3)</sup>
Germ Cell Mutagenicity	: Not considered a mutagenic hazard. <sup>(3)</sup>
Carcinogenicity Reproductive and	: Components are not known to be associated with carcinogenic effects. <sup>(3)</sup> : Not expected to be a hazard. <sup>(3)</sup>
Developmental Toxicity	
Specific target organ toxicity - single exposure	: Not expected to be a hazard. <sup>(3)</sup>
Specific target organ	: Not expected to be a hazard. <sup>(3)</sup>
toxicity - repeated	
exposure	
Aspiration Hazard	<ul> <li>Not classified as a hydrocarbon with kinetic viscosity ≤ 20.5mm2/s measured at 40°C. Not considered an aspiration hazard.</li> </ul>
12. ECOLOGICAL INFORMA	ATION
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product.
	Information given is based on a knowledge of the components and the ecotoxicology of
	similar products.
	Unless indicated otherwise, the data presented is representative of the main component
	of a whole product, rather than for individual component(s). Individual components contained above cut-off value is described on Section 3.
Caution	: Poorly soluble mixture. May cause physical fouling of aquatic organisms.
Toxicity	: Fish Practically non toxic: $LC/LL/EL/IL50$ >100mg/L <sup>(3)</sup>
	: Aquatic Invertebrates Practically non toxic: LC/LL/EL/IL50 >100mg/L <sup>(3)</sup>
	: Algae Practically non toxic: LC/LL/EL/IL50 >100mg/L <sup>(3)</sup>
	: Microorganisms Practically non toxic: LC/LL/EL/IL50 >100mg/L <sup>(3)</sup>
Acute Aquatic Toxicity	: Not expected to be a hazard.
Chronic Aquatic Toxicity Mobility	: Not expected to be a hazard. : Lubricating oil components have estimated log Koc >3, indicating these components
Mobility	are likely to be adsorbed onto soil and sediment and are not likely to leach to ground
Dereistones/degradability	water.
Persistence/degradability	: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable.
Bioaccumulative Potential	: Not expected to be a hazard. It may contains components with the potential to bioaccumulate. <sup>(3)</sup>
Hazardous to ozone layer	: Not classified because this product not contained substances listed on Montreal
	Protocol and Ozone Layer Protection Law.
13. DISPOSAL CONSIDERA	
Material Disposal	1 Waste disposal yourself or entrust the industrial waste treatment company who
	obtained the prefectural governor's permission or municipal corporation. Disposal should be in accordance with applicable regional, national, and local laws and
	regulations.
	2 Do not dispose into the environment, in drains or in water courses.
	3 For landfill disposal, destroy by fire and confirm cinders agreed to Waste Disposal
	Law.
	4 In event of burning this material, ensure to carryout work in safe place with guards in position, and select a method that would not cause any harm or damage to others
	during combustion or explosion.
Container Disposal	: Purify and recycle or performs suitable disposal in accordance with the standard of
-	related laws and regulations. Disposal with remove content completely.
14. TRANSPORT INFORMA	ΤΙΟΝ
International Restriction	
UN Class, Shipping	: Miscellaneous dangerous substances and articles(Class 9) / ENVIRONMENTALLY
Name	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. / PG III
UN Number Marina Bollutant	: UN3082
Marine Pollutant Domestic Restriction	: Yes. (contain oil.) : Since domestic laws and regulations shown below are applicable, containers and
	transportation methods shall be required to follow each and every regulation.
Land Fire Service Law	
Container:	If product classified as dangerous goods, use containers (other than tanker, tank car
	and tank truck) for transportation usage, shall meet the Clause 2, Notice Attachment
See	3, concerning dangerous materials.
Sea	: Ship Safety Law: UN3082 Miscellaneous dangerous substances and articles(Class 9) / ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. / PG III
	/ LINVINCUNIVILINTALLT HAZANDOUS SUBSTAINCE, LIQUID, N.O.S. / PG III

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Air :	Civil Aeronautics Act: UN3082 Miscellaneous dangerous substances and articles(Class 9) / ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. / PG III
and conditions for 2 transportation 3	Caution: Not classified as flammable but will burn. Transport remarkably with containers may not cause friction or agitation. Display signage on vehicle and provide with fire fighting equipment, if and when required to transport more than the specified quantity. Total piled height of vehicle shall be less than 3 meters. Consolidation of this material with dangerous goods belonging to the 1st and 6th Classification is prohibited. Abide by other laws and regulations that are applicable.
15. REGULATORY INFORMAT International Information EINECS/ELINCS (EC) TSCA (USA) METI (JAPAN) Domestic Information	<ul> <li>: All components listed or polymer exempt.</li> <li>: All components listed or in compliance.</li> <li>: All components listed or in compliance.</li> </ul>
Fire Service Law	: Dangerous goods. Group 4 (flammable liquid), Class 4 petroleum, Danger grade
Pollutant Release and Transfer Register (PRTR) Law	: Not applicable
Industrial Safety and Healtl Law	n : Not applicable
Poisonous and Deleterious Substance Control Law	: Not applicable
Marine Pollution Protection	: Waste Oil Regulation.
Sewage Control Law Water Pollution Prevention Law	: Mineral Oil Disposal Regulation. (5mg/L) : Oil Disposal Regulation. (5mg/L)
Waste Disposal and Public	: Industrial Waste Regulation.

#### **16. OTHER INFORMATION**

**Cleaning Law** 

- Subscribe "%" in this document means weight percentage.

[Quotation]

1. Recommendation of Occupational Exposure Limits (2012), Japanese Society of Occupational Health

- 2. Thresholds limit values for chemical substances and physical agents and biological exposure indices, ACGIH (2012)
- 3. SDS of EU suppliers (2010-2012)

[Reference]

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 4th revised edition, UNITED NATIONS(2011)

- Japanese Standards Association (JSA), JIS Z 7253:2012, JIS Z 7252:2014

- National Institute of Technology and Evaluation (nite), "GHS Information"

Ministry of Economy, Trade and Industry, Chemical Management site.
 Ministry of Health, Labour and Welfare, "Label and SDS information for GHS model"

Safety Data Sheet (SDS) about hazardous chemical is provided for a entrepreneur as reference information for safety handling. Refer to this document and perform suitable handling. Nothing in this document shall reduce the user's responsibility to satisfy itself as to the suitability, accuracy, reliability, and completeness of such information for its particular use. There is no warranty against intellectual property infringement. The information contained in this document is based upon data believed to be reliable through our supply chain at the time. So, we could not guarantee all about the contents. This document is based on JIS Z7253:2012/JIS Z 7252:2014, and is not a guarantee of safety. Contents of SDS updated periodically. SDS compliance is required as a rule to all business enterprises engaged in transaction of chemicals (including products containing them) with other businesses. Retailer/ Wholesaler must provide newest SDS to customers.

[Technical contact] Shell Lubricants Japan K.K. / Lubricant Customer Service Center

TEL.0120-064-315 FAX.0120-264-315 (Japanese domestic only) / E-mail:csc@shell-lubes.co.jp [SDS Author] Shell Lubricants Japan K.K. / Quality Assurance Division [SDS Request] As a rule, the direct delivery entrepreneur must provide the newest SDS to customer. Please contact not directly manufacturer but your supply chain company.