Safety Data Sheet (SDS)

Effective Date: November 1, 2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Material Name SHELL PARAOL 100,130 Recommended Use Metal working oil. Other than those above. **Restricted Use**

Manufacturer/Supplier : Shell Lubricants Japan K.K.

3-2, Daiba 2-chome, Minato-ku, Tokyo, 135-8074, Japan

Telephone/Fax : Refer to end of this document.

Emergency Telephone : Refer to end of this document. (Japanese office hours only)

Number **Quality Assurance Division**

: 474138 **SDS Code**

2. HAZARDS IDENTIFICATION

GHS Classification : Flammable liquids: Category 3

Aspiration hazard: Category 1

GHS Label Elements

Symbol(s)



Signal Words Danger

Hazard Statement H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

GHS Precautionary Statements

Prevention : P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof electrical/ventilating/lighting/etc. equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response : P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P301+P331: IF SWALLOWED: Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P370+P378: In case of fire: Use suitable media (see details on this SDS) to extinguish.

Storage : P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal : P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with

local and national regulations.

Please see Section 4 - 8 before use for Prevention/Response/Storage/Disposal. Unclassified Hazard :

Information Used oil may contain harmful impurities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture : Substance(UVCB: Unknown or Variable composition, Complex reaction products

and Biological materials)

Chemical Description : Lubricating oil.

Component Information : Lubricant base oil 100% **Chemical Formula** : Not possible to define.

: Trade secret CAS registry number

Additional Information : It contains <3% DMSO-extract, according to IP346.

Pollutant Release and Transfer : Not applicable

Register (PRTR) Law

Industrial Safety and Health : Dangerous Materials: Flammable liquid

Law

Poisonous and Deleterious : Not applicable

Substance Control Law

Classification of components : [Chemical Identity/Hazard Class (category)/Hazard Statement/Conc.] Low viscosity base oil/Flam. Liq. 3, Asp. Tox. 1/H226,H304/100% according to GHS

The specific chemical identities and percentages of composition have been withheld as trade secrets.

4. FIRST AID MEASURES

General Information Inhalation

: Not expected to be a health hazard when used under normal conditions. : 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.

Skin Contact

: Wash skin with large amount of water using soap.

Eye Contact

: 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.

Ingestion

: Without inducing vomiting, call a doctor for treatment. If mouth has been dirtied, clean

with water.

Most Important

Symptoms/Effects, Acute

& Delayed

: If swallowed, may irritate mucous membrane of stomach and induce vomiting. 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-emergency personnel.

Suitable Extinguishing

from Chemicals

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

Unsuitable Extinguishing Media

Specific Hazards Arising

: Do not use water in a jet. : Hazardous combustion products may include: A complex mixture of airborne solid and

liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds

shutdown the air in a large fires.

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

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this SDS. See Section 13 for information on disposal. Observe the relevant local and international regulations.

Personal Precautions, **Protective Equipment and Emergency Procedures**

Environmental Precautions

: Avoid contact with skin and eyes. Prepare suitable equipment and materials.

: Use appropriate containment to avoid environmental contamination. Prevent from 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 Containment and Clean Up

: Promptly remove all ignition sources and stop leakages. In a small leakage, absorb and recover by use of soil, sand, sawdust and waste clothes. In a large leakage, 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 STORAGE **HANDLING**

Technical Measures

: 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.

Ventilation Precautions Precautions for Safe

Handling **STRAGE**

see Section 8

Use under normal temperature. Prevent from mixing water and impurity. Avoid contact with halogens, strong acids, alkali and oxidizing materials.

Conditions for Safe

Storage

: Keep containers tightly closed and in a cool, well-ventilated place away from direct sunlight. It is recommended to lock up storage area. Use properly labelled and closeable containers. Avoid heat, sparks, open flame and static accumulation.

Technical Measures Precautions for Safe

Stroage Recommended Materials :

All electrical appliances shall be explosion-proof types, and they all must be earthed. Avoid contact and storage in same place with halogens, strong acids, alkali and

oxidizing 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

Control

: Not specified

Limits

OSHA, Permissible

: 5mg/m³ (as Oil mist, mineral)

Exposure Limits (PEL) Occupational Exposure

: Japan Society for Occupational Health(2012)⁽¹⁾ Data not available. ACGIH(2012) TWA[Inhalable fraction.](2) Data not available.

Protective Equipment

Skin protection not ordinarily required beyond standard issue work clothes.

Respiratory Protection : No respiratory protection is ordinarily required under normal conditions of use. Use appropriate equipment in response to the circumstances.

: Use oil-proof protective hand gloves under prolonged or repeated skin contact.

Hand Protection Eve Protection Skin and Body

: Wear safety glasses or full face shield if splashes are likely to occur.

Protection

: Use oil-proof/long sleeved clothing under prolonged usage.

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 Colourless. Clear. Odour Almost no odour. **Odour threshold** Data not available. рΗ Not applicable.

Pour point <-30°C

Initial Boiling Point Expected >150°C Flash point ≥ 21°C (TAG) **Evaporation rate** Data not available. Flammability (solid, gas) Not applicable.

Typical 1 - 7 %(V) (based on mineral oil) **Upper / lower Flammability or Explosion limits**

Vapour pressure Data not available.

Vapour density Data not available. Expected >1 Density Approx. 0.75-0.77g/cm³ (15°C)

Water: Negligible. Solubility 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

: Stable under normal condition. **Chemical Stability**

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

(3)

Basis for Assessment Information given is based on data on the components and the toxicology of similar

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.

Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat **Acute Toxicity** 1 Oral

2 Dermal Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

3 Inhalation(Vapour) Data not available

4 Inhalation(Mist) Low toxicity: LC50 > 5 mg/l, 4h, Rat

Skin Corrosion/Irritation : No data available. Prolonged/repeated contact may cause defatting of the skin which

can lead to dermatitis.

: Not classified as an eye irritation. Capable of slightly irritating. Serious Eye

Damage/Irritation

Respiratory or Skin : Not expected to be a respiratory irritant. Not expected to be a skin sensitiser. Sensitisation **Germ Cell Mutagenicity** : Not expected to be mutagenic.

Carcinogenicity : Not expected to be carcinogenic. Reproductive and **Developmental Toxicity** : Not expected to be a developmental toxicant.

Specific target organ

Not expected to impair fertility.

toxicity

: Kidney: caused kidney effects in male rats which are not considered relevant to humans.

: Classified as a hydrocarbon with kinetic viscosity ≤ 20.5mm2/s measured at 40°C. To **Aspiration Hazard** be reagrded as if they cause human aspiration toxicity hazard.

12. ECOLOGICAL INFORMATION

(3)

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.

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Caution

Expected to be not toxic at limit of water solubility. **Toxicity**

The Water Accommodated Fraction (WAF) test of similar product (highly refined

mineral oil) indicate no acute toxicity.

Toxicity for Fish/Aquatic Invertebrates/Algae/Microorganisms may be practically non

toxic: LC/LL/EL/IL50 >100mg/L

Acute Aquatic Toxicity Chronic Aquatic Toxicity Not expected to be a hazard. Not expected to be a hazard.

Mobility Adsorbs to soil and has low mobility. Floats on water.

Persistence/degradability Expected to be not inherently biodegradable. Oxidises rapidly by photo-chemical

reactions in air.

Bioaccumulative Potential

Has the potential to bioaccumulate.

Hazardous to ozone layer Not classified because this product not contained substances listed on Montreal

Protocol and Ozone Layer Protection Law.

13. DISPOSAL CONSIDERATIONS

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 INFORMATION

International Restriction

UN Class, Shipping

: Flammable liquids(Class 3) / PETROLEUM DISTILLATES, N.O.S.

Name

Land

UN Number : UN1268 **Marine Pollutant** Yes.

Fire Service Law:

Domestic Restriction : Since domestic laws and regulations shown below are applicable, containers and

> transportation methods shall be required to follow each and every regulation. Dangerous goods. Group 4 (flammable liquid), Class 2 petroleum, Danger grade III

(water insoluble)

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 3,

concerning dangerous materials.

Sea Ship Safety Law: UN1268 Flammable liquids(Class 3) / PETROLEUM DISTILLATES,

N.O.S.

Civil Aeronautics Act: UN1268 Flammable liquids(Class 3) / PETROLEUM Air

DISTILLATES, N.O.S.

Classification is prohibited.

Specific safety measures and conditions for transportation

1 Caution: Flammable.

2 Transport remarkably with containers may not cause friction or agitation.

3 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. 4 Consolidation of this material with dangerous goods belonging to the 1st and 6th

5 Abide by other laws and regulations that are applicable.

15. REGULATORY INFORMATION

International Information

EINECS/ELINCS (EC)1. All components listed or polymer exempt.

2. All components listed or in compliance.

3. All components listed or in compliance.

4. All components listed or in compliance.

Domestic Information

Fire Service Law : Dangerous goods. Group 4 (flammable liquid), Class 2 petroleum, Danger grade

III (water insoluble)

Pollutant Release and Transfer Register (PRTR)

ransier Register

: Not applicable

Law

Poisonous and Deleterious

s : Not applicable

Substance Control Law Marine Pollution Protection

: Waste Oil Regulation.

Law

Sewage Control Law

: Mineral Oil Disposal Regulation. (5mg/L)

Water Pollution Prevention

: Oil Disposal Regulation. (5mg/L)

Law

Waste Disposal and Public

: Industrial Waste Regulation.

Cleaning Law

16. OTHER INFORMATION

- 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. ECHA (European Chemicals Agency), website "ECHA CHEM", Information on Registered Substances (2012). 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, 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.

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TEL.0120-064-315 (Japanese domestic only) / csc@shell-lubes.co.jp

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[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.