

Rev 3.0 - 21 March 2016

PRODUCT CODE - P5 & P6

1. Identification of the Substance/Mixture and of the Company/Undertaking

- Material name Shell Ondina Oil 32,67
- Recommended use White mineral oil.
- SDS Code 493411
- Identified uses Lubricating oil for the mechanical seals of the Newton NP750 Pump
- Company Address Newton Waterproofing Systems, Newton House, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web www.newtonwaterproofing.co.uk
- Email address of the competent person info@newtonwaterproofing.co.uk
- Emergency telephone number +44 (0)1732 360 095
9am - 5pm (GMT) Mon - Fri

2. Hazards Identification

- GHS Classification Not hazardous
- GHS Label Elements Symbol(s)
- Signal Words No signal word
 - Hazard Statement Not classified under GHS criteria.
- GHS Precautionary Statements
- Prevention No precautionary phrases. No precautionary phrases. No precautionary phrases.
 - Response No precautionary phrases. No precautionary phrases. Not classified as flammable but will burn.
 - Storage See Section 4 - 8 before use for Prevention/Response/Storage/Disposal. Used oil may contain harmful impurities.
 - Disposal
 - Other Hazards not result in classification

3. Composition/Information on Ingredients

- Substance or Mixture Substance (UVCB)
- Chemical Description White mineral oil.
- Component Information Lubricant base oil (White mineral oil) 100%
- Chemical Formula CAS Not possible to define.
- registry number Trade secret
- Additional Information If product contained highly refined mineral oil, it contains <3% DMSO-extract, according to IP346.
- Pollutant Release and Transfer Not applicable

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- Register (PRTR) Law
- Industrial Safety and Health Law Not applicable
- Poisonous and Deleterious Substance Control Law Not applicable
- Classification of components according to GHS [Chemical Identity/Hazard Class (category)/Hazard Statement/Conc.]
Data not available.

4. First Aid Measures

- General Information Not expected to be a health hazard when used under normal conditions.
- Inhalation Remove person 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. Firefighting Measures

Clear fire area of all non-emergency 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

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. See Section 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 Precautions Use appropriate containment to avoid environmental contamination.

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- Methods and Material for Containment and Clean-Up
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.
- Additional Advice
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.
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 protective equipment if skin or eye contact may cause. Seal containers hermetically without handling in violent such as falling, dropping, or jolting.
- Ventilation Precautions
See Section 8
- Precautions for Safe Handling
Use under normal temperature. Prevent from mixing water and impurity. Avoid contact with halogens, strong acids, alkali and oxidizing materials.

STORAGE

- 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
All electrical appliances shall be explosion-proof types, and they all must be earthed.
- Precautions for Safe Storage
Avoid contact and storage in same place with halogens, strong acids, alkali and oxidizing materials.
- Recommended Materials
Store 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
- Occupational Exposure Limits
Japan Society for Occupational Health(2010)(1) 3mg/m³ (as Oil mist, mineral) ACGIH(2010) TWA[Inhalable fraction.](2) 5mg/m³ (as Oil mist, mineral)

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- 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.
- 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 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 Characteristic mineral oil pH : Not applicable.
- Initial Boiling Point Expected >250°C
- Pour Point <-10°C
- Flash Point ≥ 200°C (COC)
- Upper / Lower Flammability Explosion limits Typical 1 - 7 %(V) (based on mineral oil)
- Auto-ignition temperature Data not available. Expected >320°C
- Density Approx. 0.86g/cm³ (15°C)
- Solubility **Water:** Negligible. **Other solvents:** Data not available
- Decomposition Temperature : Data not available
- Vapour pressure Data not available
- Vapour density Data not available. Expected >1
- n-octanol/water partition coefficient (log Pow) Data not available
- Evaporation rate Data not available

10. Stability and Reactivity

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

11. Toxicological Information

- Acute Toxicity 1 Oral Expected to be of low toxicity: LD50 > 15,000 mg/kg , Rat
2 Dermal Expected to be of low toxicity: LD50 > 5,000 mg/kg , Rat
3 Inhalation (Vapour) Data not available
4 Inhalation (Mist) Data not available
- Skin Corrosion/Irritation Not classified as a skin irritation (rabbit test).

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- Serious Eye Damage/Irritation Not classified as an eye irritation (rabbit test).
- Respiratory or Skin Sensitisation No data available concerning respiratory sensitisation. Not classified as a skin sensitiser (pig test).
- Germ Cell Mutagenicity Data not available.
- Carcinogenicity Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC monographs: Group 3). White mineral oils are the higher degree of refining and not classified as a carcinogen.
- Reproductive and Developmental Toxicity Not classified as a Reproductive and Developmental Toxicity (rabbit test, 4,350mg/kg bw/day, 5days a week, 13weeks)
- Specific target organ toxicity Not expected to be a hazard.
- Aspiration Hazard Not classified as a hydrocarbon with kinetic viscosity $\leq 20.5\text{mm}^2/\text{s}$ measured at 40°C. Not considered an aspiration hazard.

12. Ecological Information

- Caution Poorly soluble mixture. May cause physical fouling of aquatic organisms.
- Acute Aquatic Toxicity Fish Practically non toxic: LC50>10,000mg/L (Lepomis macrochirus, 96hrs)
- Chronic Aquatic Toxicity Not expected to be a hazard.
- Mobility Generally floats on water. Lubricating oil components have estimated log Koc >3, indicating these components are likely to be adsorbed onto soil and sediment and are not likely to leach to ground water.
- Persistence/degradability Data not available
- Bioaccumulative Potential Data not available

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 Not applicable. Not applicable. This material is not classified as dangerous under IMDG/IATA regulations.
- UN Number
- Other Information
- Domestic Restriction Since domestic laws and regulations shown below are applicable, containers and transportation methods shall be required to follow each and

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• Land Fire Service Law	every regulation.
• Container	Dangerous goods. Group 4 (flammable liquid), Class 4 petroleum, Danger grade III (water soluble) 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: Not Dangerous Goods.
• Air	Civil Aeronautics Act: Not Dangerous Goods.
• Specific safety measures transportation	1 - Caution: Flammable and conditions for 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 Classification is prohibited. 5 - Abide by other laws and regulations that are applicable.

15. Regulatory Information

International Information

EINECS/ELINCS (EC)

All components listed or polymer exempt.

TSCA (USA)

All components listed or in compliance. All

METI (JAPAN)

components listed or in compliance.

Domestic Information

• Fire Service Law	Dangerous goods. Group 4 (flammable liquid), Class 4 petroleum, Danger grade III (water soluble)
• Marine Pollution Protection Law	Waste Oil Regulation.
• Sewage Control Law	Mineral Oil Disposal Regulation. (5mg/L)
• Water Pollution Prevention Law	Oil Disposal Regulation. (5mg/L)
• Waste Disposal and Public Cleaning Law	Industrial Waste Regulation.

16. Other Information

- Subscribe “%” in this document means weight percentage.

[Quotation]

1. Recommendation of Occupational Exposure Limits (2010), Japanese Society of Occupational Health
2. Thresholds limit values for chemical substances and physical agents and biological exposure indices, ACGIH (2010)

[Reference]

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2nd/3rd revised edition, UNITED NATIONS(2007/2009)
- Japanese Standards Association (JSA), JIS Z 7250:2005, JIS Z 7251:2006, JIS Z 7252:2009
- National Institute of Technology and Evaluation (nite) “GHS Information”
- Japan Advanced Information Center of Safety and Health, “Label and MSDS information for GHS model”

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Material Safety Data Sheet (MSDS) about hazardous chemical is provided 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, Showa Shell Sekiyu could not guarantee all about the contents. This document is based on JIS Z7250:2005, and is not a guarantee of safety.

Contents of MSDS updated periodically. MSDS 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 MSDS to customers.

DISCLAIMER

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Newton Waterproofing Systems shall not be held liable for any damage resulting from contact with or handling of the above product.