Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>p-Dodecylbenzenesulfonyl Azide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>322-21332,326-21335</td>
</tr>
<tr>
<td>CAS No</td>
<td>79791-38-1</td>
</tr>
<tr>
<td>Formula</td>
<td>C18H29N3O2S</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>FUJIFILM Wako Pure Chemical Corporation</td>
</tr>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome</td>
</tr>
<tr>
<td></td>
<td>Chuuo-ku, Osaka 540-8605, Japan</td>
</tr>
<tr>
<td></td>
<td>Phone: +81-6-6203-3741</td>
</tr>
<tr>
<td></td>
<td>Fax: +81-6-6203-5964</td>
</tr>
<tr>
<td>Supplier</td>
<td>FUJIFILM Wako Pure Chemical Corporation</td>
</tr>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome, Chuuo-ku, Osaka</td>
</tr>
<tr>
<td></td>
<td>540-8605, Japan</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>+81-6-6203-3741 / +81-3-3270-8571</td>
</tr>
<tr>
<td>Recommended uses and restrictions on use</td>
<td>For research purposes</td>
</tr>
<tr>
<td>Announcement of company name change</td>
<td>Company name has changed since April 1, 2018. Former name was &quot;Wako Pure Chemical Industries, Ltd.&quot;</td>
</tr>
</tbody>
</table>

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

- Acute toxicity - Oral
  - Category 4
- Acute toxicity - Inhalation (Vapors)
  - Category 4
- Skin corrosion/irritation
  - Category 2
- Serious eye damage/eye irritation
  - Category 2A
- Specific target organ toxicity (single exposure)
  - Category 3 Respiratory tract irritation

Pictograms

Signal word

Warning

Hazard statements

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H302 - Harmful if swallowed
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
Precautionary statements-(Prevention)
• Wash face, hands and any exposed skin thoroughly after handling
• Do not eat, drink or smoke when using this product
• Avoid breathing dust/fume/gas/mist/vapors/spray
• Use only outdoors or in a well-ventilated area
• Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.
• IF ON SKIN: Wash with plenty of soap and water
• If skin irritation occurs: Get medical advice/attention
• Take off contaminated clothing and wash before reuse
• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
• Call a POISON CENTER or doctor/physician if you feel unwell.
• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
• Rinse mouth.

Precautionary statements-(Storage)
• Store in a well-ventilated place. Keep container tightly closed
• Store locked up.

Precautionary statements-(Disposal)
• Dispose of contents/container to an approved waste disposal plant

Others
Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C18H29N3O2S

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>Molecular weight</th>
<th>ENCS</th>
<th>ISHL No.</th>
<th>CAS No.</th>
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<tbody>
<tr>
<td>p-Dodecylbenzenesulfon yl Azide</td>
<td>=&lt;100</td>
<td>351.51</td>
<td>N/A</td>
<td>4-(8)-204</td>
<td>79791-38-1</td>
</tr>
</tbody>
</table>

Impurities and/or Additives Not applicable

Section 4: FIRST AID MEASURES

Inhalation
Remove to fresh air. If symptoms persist, call a physician.

Skin contact
Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion
Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders
Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES
Suitable extinguishing media
- Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media
- No information available

Special extinguishing method
- No information available

Specific hazards arising from the chemical product
- Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protection of fire-fighters
- Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions
- To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminant and methods and materials for cleaning up
- Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recovery, neutralization
- No information available

Secondary disaster prevention measures
- Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling
- Technical measures
- Do not give shock. Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

Precautions
- Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions
- Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity) Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage
- Safe storage conditions
- Storage conditions
  - Store away from sunlight in well-ventilated place at room temperature (preferably cool).
  - Keep container tightly closed.
- Safe packaging material
  - Glass
- Incompatible substances
  - Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls
- In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand-
eye-wash facility. And display their position clearly.

**Exposure limits**
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Personal protective equipment**
- **Respiratory protection**: Protective mask
- **Hand protection**: Protection gloves
- **Eye protection**: Protective eyeglasses or chemical safety goggles
- **Skin and body protection**: Long-sleeved work clothes

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Slightly brown - yellow brown</td>
</tr>
<tr>
<td>Turbidity</td>
<td>Clear</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
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<tr>
<td><strong>Boiling point, initial boiling point and boiling range</strong></td>
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</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>No data available</td>
</tr>
<tr>
<td>Upper :</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower :</td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>No data available</td>
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<tr>
<td><strong>Specific Gravity / Relative density</strong></td>
<td>1.05</td>
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<tr>
<td><strong>Solubilities</strong></td>
<td>Water: Insoluble, Alcohols: Soluble</td>
</tr>
<tr>
<td><strong>n-Octanol/water partition coefficient:(log Pow)</strong></td>
<td>No data available</td>
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<tr>
<td><strong>Auto-ignition temperature:</strong></td>
<td>No data available</td>
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<tr>
<td><strong>Decomposition temperature:</strong></td>
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<tr>
<td><strong>Viscosity (coefficient of viscosity)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Dynamic viscosity</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Section 10: STABILITY AND REACTIVITY

**Stability**
- **Stability**: Stable under recommended storage conditions.
- **Reactivity**: No data available

**Hazardous reactions**
None under normal processing

**Conditions to avoid**
- Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock

**Incompatible materials**
- Strong oxidizing agents

**Hazardous decomposition products**
- Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

### Section 11: TOXICOLOGICAL INFORMATION
Acute toxicity  
No data available

Skin irritation/corrosion  
Serious eye damage/irritation  
Respiratory or skin sensitization  
Reproductive cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
STOT-single exposure  
STOT-repeated exposure  
Aspiration hazard  
No data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity  
No information available

Other data  
No data available

Persistence and degradability  
No information available
Bioaccumulative potential  
No information available
Mobility in soil  
No information available
Hazard to the ozone layer  
No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID  
Not regulated

UN number

Proper shipping name:  
- 

UN classification

Subsidiary hazard class

Packing group

Marine pollutant  
Not applicable

IMDG  
Not regulated

UN number

Proper shipping name:  
- 

UN classification

Subsidiary hazard class

Packing group

Marine pollutant (Sea)  
Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
No information available

IATA  
Not regulated

UN number

-
Proper shipping name: UN classification Subsidiary hazard class Packing group Environmentally Hazardous Substance Not applicable

Section 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>International Inventories</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>EINECS/ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>TSCA</td>
<td>-</td>
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</table>

<table>
<thead>
<tr>
<th>Japanese regulations</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Service Act</td>
<td>Category V, diazo compounds, dangerous grade 2</td>
</tr>
<tr>
<td>Poisonous and Deleterious</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Substances Control Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Industrial Safety and Health Act Regulations for the carriage and storage of dangerous goods in ship</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Civil Aeronautics Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Pollutant Release and Transfer Register Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Export Trade Control Order</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION


Disclaimer
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, 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. GHS Classification is according to JIS Z7252(2014). *JIS: Japanese Industrial Standards

Product information You might get a product which indicates a former company name, during the period of transition.

End of Safety Data Sheet