SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>2,5-Dichloro-2,5-dimethylhexane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>322-49951,320-49952</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>FUJIFILM Wako Pure Chemical Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome</td>
</tr>
<tr>
<td></td>
<td>Chuo-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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplier</th>
<th>FUJIFILM Wako Pure Chemical Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan</td>
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<td>Phone: +81-6-6203-3741</td>
</tr>
<tr>
<td></td>
<td>Fax: +81-6-6203-2029</td>
</tr>
</tbody>
</table>

| Emergency telephone number | +81-6-6203-3741 / +81-3-3270-8571 |

Recommended uses and restrictions on use

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Pictograms

Signal word

Warning

Hazard statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
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
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
• Use only outdoors or in a well-ventilated area

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
• Call a POISON CENTER or doctor/physician if you feel unwell
• 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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture: Substance

Formula: C8H16Cl2

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>Molecular weight</th>
<th>ENCS</th>
<th>ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,5-Dichloro-2,5-dimethylhexane</td>
<td>97.0</td>
<td>183.12</td>
<td>N/A</td>
<td>N/A</td>
<td>6223-78-5</td>
</tr>
</tbody>
</table>

Note on ISHL No.: * in the table means announced chemical substances.

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

Specific hazards arising from the chemical product
Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Special extinguishing method
No information available

Special protective actions for 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
Sweep up and gather scattered particles, and collect it in an empty airtight container.

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

Section 7: HANDLING AND STORAGE

Handling
Technical measures
Avoid contact with 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
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- and 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
Dust 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>Form had to be described by the user.</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White - slight brown</td>
</tr>
<tr>
<td>Appearance</td>
<td>crystals - crystalline powder</td>
</tr>
<tr>
<td>Odor</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>63 - 64 °C</td>
</tr>
<tr>
<td>Boiling point, initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>n-Octanol/water partition coefficient:(log Pow)</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific Gravity / Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity (coefficient of viscosity)</td>
<td>no data available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Ethanol and acetone: soluble, water: practically insoluble, or insoluble.</td>
</tr>
<tr>
<td>Physical and chemical properties</td>
<td></td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

Stability
- Chemical stability: Stable under recommended storage conditions.
- Hazardous reactions: None under normal processing

Reactivity: no data available

Conditions to avoid: Extremes of temperature and direct sunlight

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon monoxide (CO), Carbon dioxide (CO2), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity: no data available

Skin irritation/corrosion: no data available

Serious eye damage/ irritation: no data available

Respiratory or skin sensitization: no data available

Reproductive cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

STOT-single exposure: no data available

STOT-repeated exposure: no data available

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  
    Not applicable
  
    Marine pollutant  
    Not applicable

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

Section 15: REGULATORY INFORMATION

International Inventories  

    EINECS/ELINCS  
    Listed

    TSCA  
    Listed

Japanese regulations  

    Fire Service Act  
    Not applicable

    Poisonous and Deleterious  
    Not applicable
Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)
http://www.safe.nite.go.jp/japan/db.html
IATA dangerous Goods Regulations
RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS
Chemical Dictionary, Kyoritsu Publishing Co., Ltd.

Disclaimer
This SDS is according to JIS Z 7253: 2019. 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(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet