SAFETY DATA SHEET
According to JIS Z 7253:2012
Revision Date 19-Sep-2014
Version 4

Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Azoxymethane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>011-20171</td>
</tr>
<tr>
<td>CAS No</td>
<td>25843-45-2</td>
</tr>
<tr>
<td>Formula</td>
<td>C2H6N2O</td>
</tr>
</tbody>
</table>
| Manufacturer   | Wako Pure Chemical Industries, Ltd.
|                | 1-2 Doshomachi 3-Chome, Chu-ku, Osaka 540-8605, Japan
|                | Phone: +81 (0)6-6203-3741
|                | Fax: +81 (0)6-6201-5964  |
| Supplier       | Wako Pure Chemical Industries, Ltd.
|                | 1-2 Doshomachi 3-Chome, Chu-ku, Osaka 540-8605, Japan
|                | Phone: +81 (0)6-6203-3741
|                | Fax: +81 (0)6-6201-5964  |
| Emergency telephone number | +81-6-6203-3741 / +81-3-3270-8571 |

Recommended uses and restrictions on use
For research purposes

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Acute toxicity - Oral Category 2
Carcinogenicity Category 1B

Pictograms

Signal word Danger

Hazard statements
H300 - Fatal if swallowed
H350 - May cause cancer

Precautionary statements-(Prevention)
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

Precautionary statements-(Response)
- IF exposed or concerned: Get medical advice/attention
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

Precautionary statements-(Storage)

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W01W0101-2017 JGHEEN Azoxymethane
• 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₂H₆N₂O</td>
<td></td>
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</tbody>
</table>

<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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</thead>
<tbody>
<tr>
<td>Azoxymethane</td>
<td>95.0</td>
<td>74.08</td>
<td>N/A</td>
<td>N/A</td>
<td>25843-45-2</td>
</tr>
</tbody>
</table>

Impurities and/or Additives: Not applicable

Section 4: FIRST AID MEASURES

Inhalation
Move victim to fresh air Immediate medical attention is required

Skin contact
Wash off immediately with soap and plenty of water Get medical attention if irritation develops and persists

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,

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
Remove all sources of ignition 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.

Recoverly, neutralization
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 Do not breathe dust/fume/gas/mist/vapors/spray Use personal protective equipment as required

Storage
Safe storage conditions
Container protected from light, and store tightly closed in freezer (-20°C). Packed with an inert gas.

Safe packaging material
Glass

Incompatible substances
Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls
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.

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
gas mask for organic gas

Hand protection
Protection gloves

Eye protection
protective eyeglasses or chemical safety goggles

Skin and body protection
Wear suitable protective clothing, protective boots

General hygiene considerations
When using do not eat, drink or smoke Regular cleaning of equipment, work area and clothing is recommended

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form
colorless - nearly colorless liquid

Odor
No data available

pH
No data available

Melting point/freezing point
No data available

Boiling point, initial boiling point and boiling range
97 - 99 °C

Flash point
No data available

Evaporation rate:
No data available

Flammability (solid, gas):
No data available

Upper/lower flammability or explosive limits
Upper : No data available
Lower : No data available

Vapour pressure
No data available

Vapour density
No data available

Specific Gravity (relative density)
0.991

Solubilities
Ethanol, acetone : soluble. water : decomposes.
n-Octanol/water partition coefficient: (log Pow)
No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity (coefficient of viscosity) No data available
Dynamic viscosity No data available

Section 10: STABILITY AND REACTIVITY

Stability
Stability May be altered by light.
Reactivity No data available

Hazardous reactions
Risk of explosion by shock, friction, fire or other sources of ignition

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

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

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
UN number UN2810
Proper shipping name: Toxic liquid, organic, n.o.s.(Azoxymethane)
UN classification 6.1
Subsidiary hazard class
Packing group III
ERG Code 6L
Marine pollutant Not applicable

IMDG
UN number UN2810
Proper shipping name: Toxic liquid, organic, n.o.s.(Azoxymethane)
UN classification 6.1
Subsidiary hazard class
Packing group III
EmS-No F-A, S-A
Marine pollutant (Sea) Not applicable

IATA
UN number UN2810
Proper shipping name: Toxic liquid, organic, n.o.s.(Azoxymethane)
UN classification 6.1
Subsidiary hazard class
Packing group III

Section 15: REGULATORY INFORMATION

International Inventories
EINECS/ELINCS -
TSCA -

Japanese regulations
Fire Service Act Category V, azo compounds, dangerous grade 1
Poisonous and Deleterious Substances Control Law Not applicable
Industrial Safety and Health Act Not applicable
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc Not applicable
Regulations for the carriage and storage of dangerous goods in ship Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
Marine Pollution Prevention Law
Pollutant Release and Transfer Register Law Not applicable
Water Pollution Control Act Not applicable
Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Literature and references
Revision Note No information available

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(2010). *JIS: Japanese Industrial Standards
End of Safety Data Sheet