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<th>Chemical formula</th>
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<th>Assay</th>
<th>Physical state</th>
<th>Density</th>
<th>Boiling point</th>
<th>Melting point</th>
<th>UN No.</th>
<th>SADT °C</th>
<th>Standard packaging</th>
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<td>N2H4-H2O</td>
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<td>Powder</td>
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<tr>
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<td>41253-21-8</td>
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<td>311.5 °C</td>
<td>300 °C</td>
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<td>C8H12N4</td>
<td>78-67-1</td>
<td>98%</td>
<td>Granules</td>
<td>1.110 kg/l at 20 °C</td>
<td>105 °C</td>
<td>3234</td>
<td>50 °C</td>
<td>Fiber drums: 20, 25 and 40 kg</td>
<td></td>
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Arkema is a worldwide company with local sales network in all regions, to ensure timely commercial responses and deliveries capabilities everywhere in the world.
A strong integrated product line
- Hydrazine hydrate
- Toluidine
- Basic initiators

A solution provider in many industrial sectors
- Synthesis of active ingredients
  - Aromatic amines
  - Azoic initiators
- Anticorrosion processes
  - Smooth better water
  - Cooling system water
- Polymers and composites
  - Special polymers
  - Foams and foam components

Our product added value
- High quality for high performances
  - High purity products
  - Safe handling system
- Product stewardship commitment
  - Environmentally friendly packaging
- Customer support excellence
  - Technical support
  - REACH registration
- Quality for high performances
  - Reliable logistic partners
  - Safe and large packaging solutions
- Polymers and composites
  - Fibers and foam compounds
  - Special polymers
  - Metals treatments
  - Cooling system water
  - Pharmaceuticals

Hydrazine hydrate production plant
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CHEMICAL DATA

- Hydrogenation
- Aromatic amines
- Basic initiators
- Anticorrosion processes
- Polymers and composites

PHYSICAL DATA

- Hydrazine hydrate
- Aromatic amines
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- Anticorrosion processes
- Polymers and composites

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ARKEMA INNOVATIVE CHEMISTRY

arkema.com/hydrazine

CLOSER TO OUR CUSTOMERS

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Hydrazine and derivatives

High quality for high performances

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Additives for polymers and resins

**Product Name:** 2,2’-Dimethyl-2,2’-azodipropiononitrile

The azoic products range is composed by 3 grades. Each grade is designed to respond to different customer needs in different fields.

**COMMERCIAL GRADE**
- **AZDN E:** Regular white powder
- **AZDN EF:** Fine white powder, free flowing
- **AZDN HPC:** White granule

**APPLICATIONS**
- Foam composite
- Acrylic fibers
- Control flocculants
- PMMA
- Grafting of SAN on PU
- Grafting on acrylic rubber
- Coatings
- Pressure blown PVC
- Silicone rubber

**MARKET SEGMENTS**
- Wind turbine blades
- Tubing
- Flotation devices
- Seats foam
- Water treatment
- Paint and coating
- Sport footwear
- Gaskets and cables
- Isolation panels

**BENEFITS**
- Low energy radicals
- Increase of polymerization
- Foam homogeneity
- Low temperature blowing agent
- Non oxidative by product
- Rapid and adequate grafting
- Stability of pigment
- Less sensitivity to contaminants
HAZARDS IDENTIFICATIONS

- Heating may cause a fire.
- Harmful if swallowed.
- Harmful if inhaled.

STORAGE AND HANDLING

- AZDN must be handled and stored in a cool, well-ventilated place.
- Remove all sources of ignition. Do not smoke when manipulated the product.
- Avoid accumulation of static charge.
- Storage temperature: max 15°C to avoid agglomeration.

SAFETY RECOMMENDATION

- The Azoic product is subject of decomposition at 50°C.
- Personal Protection:
  - A respirator dust mask.
  - A protective gloves.
  - Safety glasses when manipulating the product.
  - Protective clothing.

FIRST AID MEASURES

- Skin contact: wash off immediately with soap and plenty water.
- Eye contact: wash immediately, abundantly and thoroughly with water.

MAIN PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td>C₈H₁₂N₄</td>
</tr>
<tr>
<td>Molar mass</td>
<td>164.21 g/mol</td>
</tr>
<tr>
<td>Appearance</td>
<td>White crystals</td>
</tr>
<tr>
<td>Density</td>
<td>1.1 g/cm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>103°C to 105°C</td>
</tr>
</tbody>
</table>

PRODUCT SHELF LIFE

- Max 12 months from the delivery date if stored as prescribed in the safety data sheet.

PLEASE REFER TO CORRESPONDING ARKEMA SAFETY DATA SHEET BEFORE ANY USE

Intermediates for active ingredient

The triazoles can be used as active ingredients or as a fundamental building block in the synthesis of higher value added compounds. As derivatives of hydrazine hydrate, the 1,2,4-Triazole products are marketed under different grades.

COMMERCIAL GRADE

- **1,2,4-Triazole**: extra high concentration and high purity for agrochemicals, pharmaceutical and microelectronic applications.
- **1,2,4-Triazole sodium salt**: high purity for agrochemicals and pharmaceuticals applications.

APPLICATIONS

- Agrochemicals industry
- Pharmaceuticals industry
- Synthesis process

BENEFITS

- High purity
- High selectivity
- High productivity

MARKET SEGMENTS

- **Agrochemicals**: herbicides, fungicides, insecticides, fertilizers.
- **Pharmaceuticals**: anti-cancer, antidepressants, anti-fungus, diuretics, anti-arrhythmic, anti-allergic, anti-Parkinson, anti-hemorrhagic, anti-tuberculosis, antiviral, anti-migraine.
- **Microelectronic**
HAZARDS IDENTIFICATIONS

- Causes serious eye irritation or damage.
- Harmful if swallowed.
- Suspected of damaging the unborn child.
- Very toxic to aquatic life with long lasting effects.

STORAGE AND HANDLING

- 1,2,4-Triazole and its derivative sodium salt should be stored at cool to ambient temperature, in a well-ventilated place.
- Avoid creating dust. Keep away from heat, sparks and flames. Do not smoke.
- As the sodium salt range is highly hygroscopic, do not leave packaging open longer than necessary.
- Max storage temperature: ambient temperature.

SAFETY RECOMMENDATION

- Personal Protection:
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<td>C₆H₆N₃Na</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid, powder or flakes</td>
<td>Solid white powder</td>
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<tr>
<td>Appearance</td>
<td>White to light yellow</td>
<td>White</td>
</tr>
<tr>
<td>Density</td>
<td>1.13 g/cm³ (at 153°C)</td>
<td>1.65 g/cm³ at 20°C</td>
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</tr>
</tbody>
</table>

PRODUCT SHELF LIFE

- Max 12 months from the delivery date if stored as prescribed in the safety data sheet.

PLEASE REFER TO CORRESPONDING ARKEMA SAFETY DATA SHEET BEFORE ANY USE

Hydrazine hydrate for process treatment

Marketed as a water-based solution, the Arkema’s hydrazine hydrate products are widely used as a reducing agent or as an intermediate of synthesis in various industrial sectors.

COMMERCIAL GRADE

Our Hydrazine hydrate is available in different concentrations, which are suitable for specific applications:

- Hydrazine hydrate 100%
- Hydrazine hydrate 80%
- Hydrazine hydrate 55%
- Hydrazine hydrate 35%
- Hydrazine hydrate 24%

It is also available with an organic activator for high pressure steam water applications:

- Liozan® S100
- Liozan® S55
- Liozan® S24

APPLICATIONS

- Corrosion inhibitor
- Reducing agent
- Oxygen scavenger
- Intermediate for active ingredient synthesis

BENEFITS

- Less corrosion
- Longer equipment life cycle
- Device maintenance cost reduction
- Energy saving
- Operating reliability
- High degree of reactivity

MARKET SEGMENTS

- Water management and boiler water
- Mine extraction
- Noble metal recovery
- Fine chemicals synthesis
- Pharmaceuticals and agrochemicals synthesis
HAZARDS IDENTIFICATIONS

- Toxic in contact with skin.
- Fatal if inhaled.
- May cause cancer.
- Toxic if swallowed.
- Causes severe skin burns and eyes damage.
- Very toxic to aquatic life with long lasting effects.

STORAGE AND HANDLING

- Hydrazine Hydrate must be handled and stored in a cool, well-ventilated place.
- Remove all sources of sparks and ignition. Do not smoke when manipulated the product.
- Avoid splashing when handling.
- Provide showers, eye-baths. Provide water supplies near the point of use.
- Storage temperature: ambient temperature.

SAFETY RECOMMENDATION

- Contact with incompatible products can create flammable or explosive atmospheres.
- Personal Protection:
  - A respirator with a gas filter full mask.
  - A protective gloves.
  - Safety glasses when manipulating the product.
  - Protective clothing.

FIRST AID MEASURES

- Skin contact: wash off immediately, abundantly and thoroughly with water.
- Eye contact: wash eyes immediately, abundantly and thoroughly with water.

MAIN PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Formula</th>
<th>N₂H₄·H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molar mass</td>
<td>32.046 g/mol</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless to slightly colored liquid</td>
</tr>
<tr>
<td>Density</td>
<td>1.021 g/cm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>114°C</td>
</tr>
</tbody>
</table>

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