



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY NAME

<b>Product Name</b>	<b>Hydrazine</b>
<b>Use</b>	Purification, adsorption of contaminants
<b>Distributor/Agent</b>	7D Holdings SA (Pty) Ltd
<b>Address</b>	Unit E26, U Can Store Storage 30 Elandclose Alberton, 1449 Johannesburg, RSA
<b>Telephone Number</b>	+27 (0)11 057 6755
<b>Fax Number</b>	+27 (0)86 733 8598
<b>Email</b>	<a href="mailto:info@7dholdings.com">info@7dholdings.com/</a> <a href="mailto:sales@7dholdings.com">sales@7dholdings.com</a>
<b>Country of Manufacture</b>	South Africa

### 2. COMPOSITION PRODUCT AND COMPANY NAME

<b>PRODUCT:</b>	<b>HYDRAZINE</b>
<b>CHEMICAL NATURE:</b>	Corrosion inhibitor for steam generating plants.
<b>INGREDIENTS:</b>	Catalysed hydrazine solution

### 3. HAZARDS IDENTIFICATION



#### HUMAN HEALTH EFFECTS:

Product is toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact.

#### ENVIRONMENTAL EFFECTS:

Toxic to aquatic organisms. This product is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

#### CHEMICAL HAZARDS:

The product is alkaline.



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## 4. FIRST AID MEASURES

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### **INHALATION:**

Remove the person to fresh air. Administer artificial respiration if person is not breathing. Get medical attention immediately if breathing has stopped.

### **SKIN CONTACT:**

Rinse with plenty of water. Under running water remove contaminated clothing and shoes. Wash contaminated area with soap and water. Completely decontaminate clothing before re-use or discard.

### **EYE CONTACT:**

Holding the eye lids apart, flush promptly with plenty of clean flowing water for at least 15 minutes. Get medical attention immediately.

### **INGESTION:**

Rinse mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. Never give an unconscious person anything to drink.

### **NOTES TO PHYSICIAN:**

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### **EXTINGUISHING MEDIA:**

The product does not support combustion. Use extinguishing medium suitable for surrounding fire. Containers may be cooled with fine water spray. Residue will smoulder after water evaporation, use water, carbon dioxide or foam to control combustion.

### **SPECIFIC HAZARDS:**

Dyke all run off water.

### **PROTECTION OF FIRE FIGHTERS:**

Since the fire may produce toxic fumes, wear self contained breathing apparatus and full protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **PERSONAL PRECAUTIONS:**

Avoid contact with skin, eyes and clothing.



# Material Safety Data Sheet (MSDS)

## **ENVIRONMENTAL PRECAUTIONS:**

Prevent entry of the concentrated product into drains and water courses.

## **METHOD FOR CLEANING UP:**

Contain spillage with sand, earth or any suitable absorbent material. Transfer to a container for disposal as solid waste in accordance with local regulations. Neutralise the spill with a sodium hypochlorite solution in water solution. Wash the spillage area with water.

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## **7. HANDLING AND STORAGE**

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### **HANDLING:**

Avoid contact with skin and eyes.

### **STORAGE:**

Keep containers tightly closed. Store in a dry, ventilated store room. Store at ambient temperature.

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## **8. EXPOSURE CONTROL / PERSONAL PROTECTION**

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### **ENGINEERING MEASURES:**

No special measures required.

### **CONTROL PARAMETERS:**

Threshold limit value time weighted average:  
0,03 mg/m<sup>3</sup>

As a general guide for working with industrial chemicals always maintain the lowest possible exposure to the product.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Avoid contact, wear gloves, safety glasses and overalls.

### **RESPIRATORY PROTECTION:**

If exposed to spray mists wear an approved respirator type K filter type.

### **HAND PROTECTION:**

PVC gloves.

### **EYE PROTECTION:**

Chemical safety goggles or a face shield.



# Material Safety Data Sheet (MSDS)

## SKIN AND BODY PROTECTION:

Body covering clothes, boots and a chemical resistant apron.

## HYGIENE MEASURES:

Wash hands with soap and water after using the product.  
Keep away from food and drink.

## SAFETY STATION:

Make available in the work area an emergency eye wash station, drench shower and wash facilities.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Liquid.
<b>COLOUR:</b>	Colourless to pale yellow.
<b>ODOUR:</b>	Faint.
<b>pH:</b>	< 10.00
<b>SOLUBILITY:</b>	
Water:	Soluble in all proportions.
Hydrocarbon solvents:	Insoluble.
<b>FLASH POINT:</b>	Not flammable.
<b>EXPLOSION PROPERTIES:</b>	Not explosive.
<b>S.G (20°C):</b>	1.00 to 1.10

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## 10. STABILITY AND REACTIVITY

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### STABILITY:

Stable under normal conditions.

### CHEMICAL INCOMPATIBILITIES:

Dangerous reactions with: oxidising agents. Metals.

### CONDITIONS TO AVOID:

Contact with heat, ignition sources and incompatible materials.



## HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen, ammonia.

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## 11. TOXICOLOGICAL INFORMATION

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### TOXICITY DATA:

LD<sub>50</sub> rat (oral) 94 mg/kg.

### INHALATION:

Inhalation of spray mists may cause irritation of the upper respiratory tract.

### SKIN:

May cause irritation and redness of the skin. Sensitisation may occur in certain individuals.

### EYE:

May cause irritation and redness of the eyes. Burning and tearing may occur.

### INGESTION:

May cause chemical burns of the mucous membranes in the mouth. Irritation of the gastrointestinal tract and abdominal pains may occur.

### SPECIFIC EFFECTS:

No specific effect has been recorded.

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## 12. ECOLOGICAL INFORMATION

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### MOBILITY:

Product is soluble in water.

### BIODEGRADATION:

Product is susceptible to biodegradation.

### BIOACCUMULATION:

The product does not bioaccumulate. The product will be readily absorbed on to particulate matter, such as sand and silt.

### ECOTOXICITY:

Fish toxicity    LC50    0.75 mg/l (48 hours *Leuciscus idus*)  
                          LC50    0.81 mg/l (24 hours *Daphnia magna*)



## Material Safety Data Sheet (MSDS)

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### 13. DISPOSAL CONSIDERATIONS

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Observe all national or regional provisions regarding disposal which may be in force.

#### DISPOSAL OF PACKAGING

Always obey hazard warnings. Triple rinse the container before disposal add the rinsing to the water system. Return the container to a reputable drum recycling organisation or puncture the container before disposal. Do not use the container for storage of potable water.

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### 14. TRANSPORT INFORMATION

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SHIPPING NAME : Hydrazine  
HAZARD CLASS : 8, Corrosive, Toxic.  
UN No. : 2030

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### 15. REGULATORY INFORMATION

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The product is not controlled by current legislation.

#### RISK PHRASES:

R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 34	Causes burns.
R 43	May cause sensitisation by skin contact.
R 50/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

#### SAFETY PHRASES:

S 45	In case of accident or if you feel unwell, seek medical advice.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment.