

# Material Safety Data Sheet

according to ANSI Z400.1-2004

## MDP

Print date: 24.07.2012

Product code: 7160

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## Product identifier

MDP

### Further trade names

Phosphonic acid, methylenebis

Synonyms:

Phosphonic acid, methylenedi-; Medronic acid; Methanebisphosphonic acid; Methanediphosphonic acid; Methylene-1,1-bisphosphonic acid; Methylenebis[phosphonic acid]; Methylenediphosphonic acid; Methylene diphosphonate

### Chemical characterization ( substance )

Phosphonic acid, methylenebis

CAS No.: 1984-15-2

EC No.: 217-851-0

### Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds  
Biomedizinische Forschungsreagenzien GmbH

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## SECTION 2: Hazards identification

**Route(s) of Entry**

## Signs and Symptoms of Exposure

Carcinogenicity (NTP): No information available.

Carcinogenicity (IARC): No information available.

Carcinogenicity (OSHA): No information available.

### SECTION 3: Composition/information on ingredients

## Substances

Sum formula: CH6O6P2

Molecular weight: 176.00

### Hazardous components

CAS No.	Components	Quantity
1984-15-2	MDP	95 - 100 %

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**SECTION 4: First aid measures****Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

If swallowed, immediately drink: Water. Immediately get medical attention.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**Extinguishing materials should be selected according to the surrounding area. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

**SECTION 6: Accidental release measures****Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment. Do not eat, drink, smoke or sneeze at the workplace.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed.

**Further information on storage conditions**

Recommended storage temperature:

of °C: 2

up to °C: 8

Keep the packing dry and well sealed to prevent contamination and absorption of dampness. Protect against: Light.

Store under (Gas): argon. Nitrogen.

**SECTION 8: Exposure controls/personal protection**

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**Control parameters****Exposure controls****Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe dust.

**Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Form:	fest
Color:	colourless

**Test method****Changes in the physical state**

Melting point: 201 - 207 °C

Water solubility: insoluble

Solubility in other solvents: dimethylsulphoxide (DMSO).

**SECTION 10: Stability and reactivity**

Stability:	Stable
Possibility of Hazardous Reactions:	Will not occur

**Conditions to avoid**

Light.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. Phosphorus compounds.

**SECTION 11: Toxicological information****Information on toxicological effects****Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information****Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled.

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**SECTION 14: Transport information****US DOT 49 CFR 172.101****Proper shipping name**

Corrosive solid, acidic, organic, n.o.s. (Medronic acid)

ID Number: 3261

Hazard Class or Division: 8

Packing group: III

Label:

**Land transport (ADR/RID)****UN number:** 3261**UN proper shipping name:** ätzender, saurer, organischer, fester Stoff, n.a.g. (Medronic acid)**Transport hazard class(es):** 8**Packing group:** III**Inland waterways transport****UN number:** 3261**UN proper shipping name:** corrosive solid, acidic, organic, n.o.s. (Medronic acid)**Transport hazard class(es):** 8**Packing group:** III**Marine transport****UN number:** 3261**UN proper shipping name:** corrosive solid, acidic, organic, n.o.s. (Medronic acid)**Transport hazard class(es):** 8**Packing group:** III

Marine pollutant: no

**Air transport****UN/ID number:** 3261**UN proper shipping name:** corrosive solid, acidic, organic, n.o.s. (Medronic acid)**Transport hazard class(es):** 8**Packing group:** III**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health: 3

Flammability: 1

Physical Hazard: 1

Personal Protection: F

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**NFPA Hazard Ratings**

Health:	3
Flammability:	1
Reactivity:	1
Unique Hazard:	

