

# Palintest

Water Analysis Technologies

## SAFETY DATA SHEET HARDICOL No. 1 TABLETS

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** HARDICOL No. 1 TABLETS  
**Product number** AP254, PM254, PTH0503M, WAG-WE10130, PTH054CN

#### Recommended use of the chemical and restrictions on use

**Application** Testing water

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

**Supplier** PALINTEST USA  
400 CORPORATE CIRCLE  
SUITE J  
GOLDEN  
COLORADO  
80401  
USA  
Tel: (720) 221-6878  
Fax: (720) 496-4766  
info@palintestusa.com

#### Emergency telephone number

**Emergency telephone** +44 (0)207 858 1228 (24hr)  
**National emergency telephone number** +44 (0)207 858 1228 (24hr) +44 (0)207 858 1228 (24hr)

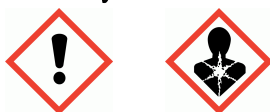
### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 1B - H360FD  
**Environmental hazards** Not Classified

#### Label elements

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H360FD May damage fertility. May damage the unborn child.

## HARDICOL No. 1 TABLETS

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P264 Wash contaminated skin thoroughly after handling.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P302+P352 If on skin: Wash with plenty of water.  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with local regulations.

**Contains** BORIC ACID

### Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### 3. Composition/information on ingredients

#### Mixtures

<b>AMMONIUM CHLORIDE</b>	<b>30-40%</b>
CAS number: 12125-02-9	
<b>Classification</b>	
Acute Tox. 4 - H302 Eye Irrit. 2 - H319	
<b>BORIC ACID</b>	<b>10-20%</b>
CAS number: 10043-35-3	
This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES.	
<b>Classification</b>	
Repr. 1B - H360FD	
<b>LITHIUM HYDROXIDE</b>	<b>&lt;2%</b>
CAS number: 1310-66-3	
<b>Classification</b>	
Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

**Inhalation** Unlikely route of exposure as the product does not contain volatile substances.

**Ingestion** Rinse mouth thoroughly with water. Get medical attention immediately.

**Skin Contact** Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

## HARDICOL No. 1 TABLETS

### Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	This is unlikely to occur but symptoms similar to those of ingestion may develop.
<b>Ingestion</b>	May cause irritation. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.

### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### **5. Fire-fighting measures**

#### Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
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#### Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Heating may generate the following products: Toxic and corrosive gases or vapors.
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#### Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
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### **6. Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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#### Environmental precautions

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. However, large or frequent spills may have hazardous effects on the environment.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Large Spillages: Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Absorb in vermiculite, dry sand or earth and place into containers. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush away spillage with plenty of water.
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<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### **7. Handling and storage**

#### Precautions for safe handling

<b>Usage precautions</b>	Good personal hygiene procedures should be implemented.
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#### Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in tightly-closed, original container in a dry and cool place.
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#### Specific end uses(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.
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## HARDICOL No. 1 TABLETS

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### AMMONIUM CHLORIDE

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 20 mg/m<sup>3</sup>

##### BORIC ACID

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 6 mg/m<sup>3</sup>

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### Ingredient comments

OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit. ACGIH = US Standard.

#### Exposure controls

##### Protective equipment



#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. It is recommended that gloves are made of the following material: Nitrile rubber.

#### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash promptly if skin becomes contaminated.

#### Respiratory protection

Due to the physical nature of this product, exposure by this route is unlikely. No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Solid
Color	White.
Odor	Odorless.
Solubility(ies)	Soluble in water.
Other information	No data available.

### 10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No data available.

## HARDICOL No. 1 TABLETS

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	There are no anticipated hazardous decomposition products associated with this material.

### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** This product is toxic. May damage fertility or the unborn child if swallowed.

**Other health effects** Causes skin irritation. Causes serious eye irritation.

#### Acute toxicity - oral

**Summary** May damage fertility or the unborn child if swallowed.

**ATE oral (mg/kg)** 3,688.14

#### Acute toxicity - dermal

**Summary** Causes skin irritation.

#### Acute toxicity - inhalation

**Summary** No data available.

#### Skin corrosion/irritation

**Summary** Causes skin irritation.

#### Serious eye damage/irritation

**Summary** Causes serious eye irritation.

#### Reproductive toxicity

**Summary** May damage fertility or the unborn child if swallowed.

**Inhalation** No data available.

**Ingestion** May damage fertility or the unborn child if swallowed.

**Skin Contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

### 12. Ecological information

**Ecotoxicity** Not considered to be a significant hazard due to the small quantities used. However, large or frequent spills may have hazardous effects on the environment.

**Toxicity** No data available.

#### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

#### Mobility in soil

**Mobility** The product is soluble in water.

**HARDICOL No. 1 TABLETS****Other adverse effects****Other adverse effects** None known.**13. Disposal considerations****Waste treatment methods****Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.**14. Transport information****General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).**UN Number****UN No. (International)** Not applicable.**UN No. (DOT)** Not applicable.**UN proper shipping name****Proper shipping name (International)** Not applicable.**Proper shipping name (DOT)** Not applicable.**Transport hazard class(es)****Transport Labels (International)** No transport warning sign required.**DOT transport labels**

No transport warning sign required.

**Packing group****Packing group (International)** Not applicable.**DOT packing group** Not applicable.**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

Not applicable.

**DOT reportable quantity** Not applicable.**DOT TIH Zone** Not applicable.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.**15. Regulatory information****US Federal Regulations****CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

## HARDICOL No. 1 TABLETS

*AMMONIUM CHLORIDE*

5,000 lbs (2270 Kg)

### **SARA 313 Emission Reporting**

None of the ingredients are listed.

### **CAA Accidental Release Prevention**

None of the ingredients are listed.

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed.

#### **Massachusetts "Right To Know" List**

*AMMONIUM CHLORIDE*

#### **Rhode Island "Right To Know" List**

*AMMONIUM CHLORIDE*

#### **Minnesota "Right To Know" List**

*LITHIUM HYDROXIDE*

*AMMONIUM CHLORIDE*

#### **New Jersey "Right To Know" List**

*LITHIUM HYDROXIDE*

*AMMONIUM CHLORIDE*

#### **Pennsylvania "Right To Know" List**

*AMMONIUM CHLORIDE*

### **Inventories**

#### **Canada - DSL/NDSL**

*POTASSIUM CHLORIDE*

*BORIC ACID*

*ETHYLENEDIAMINETETRAACETIC ACID MAGNESIUM DISODIUM SALT TETRAHYDRATE*

*AMMONIUM CHLORIDE*

*LEUCINE*

#### **US - TSCA**

*POTASSIUM CHLORIDE*

*BORIC ACID*

*ETHYLENEDIAMINETETRAACETIC ACID MAGNESIUM DISODIUM SALT TETRAHYDRATE*

*LITHIUM HYDROXIDE*

*AMMONIUM CHLORIDE*

*LEUCINE*

## HARDICOL No. 1 TABLETS

### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

#### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Issued by</b>	L. Morgan
<b>Revision date</b>	12/22/2020
<b>Revision</b>	14
<b>Supersedes date</b>	2/18/2019
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child. H360FD May damage fertility if swallowed. May damage the unborn child if swallowed.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.