

Palintest®

SAFETY DATA SHEET MANGANESE HR No. 2 TABLETS

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

1.1. Product identifier

Product name	MANGANESE HR No. 2 TABLETS
Product number	AK 174, CM 174, PM 174, AP 174, WAG-WE10142,WAG-WE10480RP U, WAG-WE10337
Internal identification	X-172

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Testing water
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1.3. Details of the supplier of the safety data sheet

Supplier	PALINTEST LIMITED PALINTEST HOUSE TEAM VALLEY GATESHEAD TYNE & WEAR NE11 0NS ENGLAND TEL 0191 491 0808 FAX 0191 482 5372 palintest@palintest.com
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1.4. Emergency telephone number

Emergency telephone	+44 (0)207 858 1228 (24hr)
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National emergency telephone number NHS Direct: 0845 4647 (England and Wales) NHS 24: 08454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn; R22. C; R34

2.2. Label elements

Pictogram



Signal word Danger

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Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local regulations.
Contains	LITHIUM HYDROXIDE
Supplementary precautionary statements	P260 Do not breathe vapour/spray. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

LITHIUM HYDROXIDE		10-30%
CAS number: 1310-66-3	EC number: 215-183-4	REACH registration number: 01-2119560576-31-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn; R22. C; R34	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Unlikely route of exposure as the product does not contain volatile substances.
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.
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.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop.

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Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	Burns can occur.
Eye contact	May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Heating may generate the following products: Toxic and corrosive gases or vapours.
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5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Not considered to be a significant hazard due to the small quantities used. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Good personal hygiene procedures should be implemented.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry and cool place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

LITHIUM HYDROXIDE

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Short-term exposure limit (15-minute): WEL 1 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

8.2. 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. Wear protective gloves 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.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	White.
Odour	Odourless.

9.2. Other information

Other information	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.
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10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
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10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Heating may generate the following products: Toxic and corrosive gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data available.

Acute toxicity - oral

ATE oral (mg/kg) 1,512.5

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

Road transport notes The product is not classified as packaged as per ADR 2013 section 3.5.1.4

Sea transport notes The product is not classified as packaged as per IMDG 2012 section 3.5.1.4

Air transport notes The product is not subject to the requirements of IATA as packaged based upon "De Minimis Quantities" as per IATA Dangerous Goods Regulations (54th edition) subsection 2.6.10.1

14.1. UN number

UN No. (ADR/RID) 2680

UN No. (IMDG) 2680

UN No. (ICAO) 2680

UN No. (ADN) 2680

14.2. UN proper shipping name

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Proper shipping name (ADR/RID) LITHIUM HYDROXIDE

Proper shipping name (IMDG) LITHIUM HYDROXIDE

Proper shipping name (ICAO) LITHIUM HYDROXIDE

Proper shipping name (ADN) LITHIUM HYDROXIDE

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C6

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels**14.4. Packing group**

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

Issued by	L. Morgan
Revision date	27/05/2015
Revision	7
Supersedes date	21/05/2015
SDS status	Approved.
Risk phrases in full	R22 Harmful if swallowed. R34 Causes burns.
Hazard statements in full	H302 Harmful if swallowed. H318 Causes serious eye damage. H314 Causes severe skin burns and eye damage.

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.