



MATERIAL SAFETY DATA SHEET

MANGANESE NO 1 TABLET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	MANGANESE NO 1 TABLET
PRODUCT NO.	X-173
PRODUCT USE	TESTING WATER
SUPPLIER	PALINTEST USA 21 KENTON LANDS ROAD ERLANGER KENTUCKY 41018 USA TEL 859 341 7423 TOLL FREE 800 835 9629 FAX 859 341 2106 INFO@palintestusa.com
EMERGENCY TELEPHONE	0191 491 0808 (Mon-Fri 08:45 - 16:45)
IDENTIFICATION No.	2509

2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

INHALATION

Dust may irritate respiratory system or lungs.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Causes burns.

EYE CONTACT

Causes burns.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion. Inhalation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
GLYCINE	200-272-2	56-40-6	10-30%
POTASSIUM CHLORIDE		7447-40-7	30-60%
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE		7778-77-0	1-5%
POTASSIUM HYDROGENSULPHATE	231-594-1	7646-93-7	10-30%
POTASSIUM TETRAOXIODATE(VII)	232-196-0	7790-21-8	1-5%
SODIUM ACETATE	204-823-8	127-09-3	10-30%
SODIUM HYDROGEN CARBONATE	205-633-8	144-55-8	1-5%

4 FIRST-AID MEASURES

INHALATION

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

INGESTION

Get medical attention immediately!

SKIN CONTACT

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

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EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust.

ENVIRONMENTAL PRECAUTIONS

Not relevant considering the small amounts used.

SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Collect in containers and seal securely. Remove containers and flush area with water. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

HANDLING

Read and follow manufacturer's recommendations. Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation.

STORAGE

Keep in original container. Store in a cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid
COLOR	White
ODOR	Odorless
SOLUBILITY	Soluble in water.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

No information available.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



DOT PROPER SHIPPING NAME	POTASSIUM HYDROGEN SULPHATE		
DOT PROPER SHIPPING NAME	POTASSIUM HYDROGEN SULPHATE		
IDENTIFICATION No.	2509	TUNNEL RESTRICTION CODE	(E)
CEFIC TEC(R) NO.	80GC2-II+III	UN NO. SEA	2509
IMDG CLASS	8	IMDG PACK GR.	II
EMS	F-A, S-B	UN NO. AIR	2509
ICAO CLASS	8	AIR PACK GR.	II

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
POTASSIUM HYDROGENSULPHATE	DSL	Yes.						
POTASSIUM CHLORIDE	DSL	Yes.						
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE	No.	No.		Yes.				
SODIUM HYDROGEN CARBONATE	DSL	Yes.						
POTASSIUM TETRAOXIODATE(VII)	DSL	Yes.						
SODIUM ACETATE	DSL	Yes.						
GLYCINE	DSL	Yes.						

COMPONENT	TSCA 12(b) Export Notification
POTASSIUM HYDROGENSULPHATE	No.
POTASSIUM CHLORIDE	No.
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE	No.
SODIUM HYDROGEN CARBONATE	No.
POTASSIUM TETRAOXIODATE(VII)	No.
SODIUM ACETATE	No.
GLYCINE	No.

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US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
POTASSIUM HYDROGENSULPHATE		Not Listed	No.
POTASSIUM CHLORIDE		Not Listed	No.
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE		Not Listed	No.
SODIUM HYDROGEN CARBONATE		Not Listed	No.
POTASSIUM TETRAOXOIODATE(VII)		Not Listed	No.
SODIUM ACETATE		Not Listed	No.
GLYCINE		Not Listed	No.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
POTASSIUM HYDROGENSULPHATE	Not Listed
POTASSIUM CHLORIDE	Not Listed
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE	Not Listed
SODIUM HYDROGEN CARBONATE	Not Listed
POTASSIUM TETRAOXOIODATE(VII)	Not Listed
SODIUM ACETATE	Not Listed
GLYCINE	Not Listed

US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
POTASSIUM HYDROGENSULPHATE	7646-93-7	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	7447-40-7	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE	7778-77-0	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM HYDROGEN CARBONATE	144-55-8	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM TETRAOXOIODATE(VII)	7790-21-8	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM ACETATE	127-09-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
GLYCINE	56-40-6	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

16 OTHER INFORMATION

VERSION No. 1
 SAFETY DATA SHEET STATUS
 Approved.
 DATE 27 April 2010
 SIGNATURE D Ellis

DISCLAIMER

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.