



MATERIAL SAFETY DATA SHEET

CALCICOL 2

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME CALCICOL 2
 PRODUCT NO. X-253
 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)

2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

INGESTION

No harmful effects expected in amounts likely to be ingested by accident.

SKIN CONTACT

Skin irritation is not anticipated when used normally.

EYE CONTACT

Particles in the eyes may cause irritation and smarting.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
BORACIC ACID		10043-35-3	10-30%
LACTOSE		63-42-3	30-60%
LEUCINE		61-90-5	30-60%
LITHIUM HYDROXIDE	215-183-4	1310-66-3	1-5%
SODIUM CHLORIDE	231-598-3	7647-14-5	10-30%

4 FIRST-AID MEASURES

INHALATION

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

INGESTION

Get medical attention.

SKIN CONTACT

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

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. Take along these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Not relevant considering the small amounts used.

SPILL CLEAN UP METHODS

No specific clean-up procedure noted.

7 HANDLING AND STORAGE

HANDLING

Read and follow manufacturer's recommendations.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
BORACIC ACID	ACGIH		2 mg/m3		6 mg/m3	A4
SODIUM CHLORIDE	ACGIH				2 mg/m3	C
SODIUM CHLORIDE	PEL		2 mg/m3			
COMPONENT						IDLH
SODIUM CHLORIDE						10 mg/m3

ACGIH = American Conference of Governmental Industrial Hygienists.

C = Ceiling limit. The concentration shall not be exceeded during any part of the working exposure

A4 = Not Classified as a Human Carcinogen

PROTECTIVE EQUIPMENT



HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash.

EYE PROTECTION

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

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid
COLOR	White
ODOR	Odorless

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

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

TRANSPORT NOTES

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

TUNNEL RESTRICTION CODE

(E)

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
LITHIUM HYDROXIDE	No	No						
LACTOSE	DSL	Yes						
LEUCINE	DSL	Yes						
SODIUM CHLORIDE	DSL	Yes						
BORACIC ACID	No	No		Yes				

COMPONENT	TSCA 12(b) Export Notification
LITHIUM HYDROXIDE	No
LACTOSE	No
LEUCINE	No
SODIUM CHLORIDE	No
BORACIC ACID	No

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
LITHIUM HYDROXIDE		Not Listed	No
LACTOSE		Not Listed	No
LEUCINE		Not Listed	No
SODIUM CHLORIDE		1 000 lbs	No
BORACIC ACID		Not Listed	No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
LITHIUM HYDROXIDE	Not Listed
LACTOSE	Not Listed
LEUCINE	Not Listed
SODIUM CHLORIDE	Not Listed
BORACIC ACID	Not Listed

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US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
LITHIUM HYDROXIDE	1310-66-3	Not Listed	Not Listed	Not Listed	Yes	Yes	Not Listed	Not Listed
LACTOSE	63-42-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
LEUCINE	61-90-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	7647-14-5	Not Listed	Yes	Yes	Yes	Yes	Yes	Yes
BORACIC ACID	10043-35-3	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 10 November 2009

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.