

REVISION DATE: 14th October 2008

## BORAX MSDS

### Borax Decahydrate

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

PRODUCT NAME	Borax Decahydrate
SYNONYMS, TRADE NAMES	Sodium Tetraborate Decahydrate, , Disodium Tetraborate Decahydrate, , Borax, , SP Grades, , EP Grades, , NF Grades, , Technical Grades,
SUPPLIER	Abbey Chemicals 27-30 North River Road Great Yarmouth Norfolk Tel: +44 1493 850303 Fax: +44 1493 330909  www.abbey-chemicals.co.uk
Emergency Contact Number (Office Hours)	+441493 850303
SDS No.	B015

#### 2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 4 FIRST-AID MEASURES

##### INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

##### INGESTION

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. Do not induce vomiting.

##### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

##### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

#### 6 ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

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### ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

### SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of dust.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>.

### HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

### EYE PROTECTION

Wear approved safety goggles.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust		
COLOUR	White		
SOLUBILITY	Soluble in water		
MOL. WEIGHT	381.37	MELTING POINT (°C)	62
RELATIVE DENSITY	1.71	pH-VALUE, DILUTED SOLUTION	9.2 1
PARTITION COEFFICIENT (N-Octanol/Water)	-0.7570		

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions.

### CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

### MATERIALS TO AVOID

Strong reducing agents.

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## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50                      4500 - 5000 mg/kg (oral rat)

## INHALATION

Dust in high concentrations may irritate the respiratory system.

## INGESTION

May cause discomfort if swallowed.

## SKIN CONTACT

Powder may irritate skin.

## EYE CONTACT

Particles in the eyes may cause irritation and smarting.

## 12 ECOLOGICAL INFORMATION

## ECOTOXICITY

Not regarded as dangerous for the environment.

LC 50, 96 Hrs, FISH mg/l                      74 (figures based on Boron, for Disodium Tetraborate Decahydrate, divide figure by 0.1134)

EC 50, 48 Hrs, DAPHNIA, mg/l                      242 (figures based on Boron, for Disodium Tetraborate Decahydrate, divide figure by 0.1134)

## MOBILITY

The product is soluble in water.

## BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

## 13 DISPOSAL CONSIDERATIONS

## DISPOSAL METHODS

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

## 14 TRANSPORT INFORMATION

ROAD TRANSPORT NOTES                      Not Classified

RAIL TRANSPORT NOTES                      Not Classified.

SEA TRANSPORT NOTES                      Not Classified.

AIR TRANSPORT NOTES                      Not Classified.

## 15 REGULATORY INFORMATION

## RISK PHRASES

NC                      Not classified.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

## GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

## 16 OTHER INFORMATION

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ISSUED BY

Abbey Chemicals

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SAFETY DATA SHEET STATUS

Approved.

DATE 20th November 2006

SIGNATURE Thomas Tailford