

Safety data sheet

Morton Smith-Dawe
LIMITED

Borate 46



UPDATED: 9 April 2015

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Borate 46 (this is used in our General Garden Fertiliser, Rhododendron Fertiliser and Rose Fertiliser)
Other Names:	Borax, Sodium tetraborate (decahydrate).
Chemical Formula:	$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
Recommended Use:	Fertiliser
Company Identification:	Morton Smith-Dawe Ltd
Address:	396 Wigram Road, Halswell, Christchurch PO Box 37-139, Halswell, Christchurch
Telephone Number:	03 322 8117
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police

Section 2: HAZARD IDENTIFICATION

Statement of Hazardous Nature:	Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Hazard Classifications:	6.1E, 6.4A, 6.8B, 9.1D
Priority Identifiers:	KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:	6.1E = May be fatal if swallowed and enters airways.
	6.4A = Causes serious eye irritation
	6.8B = Suspected of damaging fertility or the unborn child ... <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
	9.1D = Toxic to aquatic life



Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Sodium tetraborate, decahydrate	1303-96-4	>99%

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning
Inhalation:	Remove patient to fresh air. Keep at rest in comfortable position for breathing. Seek medical assistance if effects persist.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed rinse mouth. DO NOT induce vomiting. Seek medical advice.
Skin:	Wash affected area with water then soap and water.
Eye:	Rinse cautiously with water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point:	N/A (Non-flammable)
Hazardous Combustion Products:	May produce toxic vapours.
Extinguishing Media:	Based on surrounding materials.
Flammability Limits:	N/A
HAZCHEM Code:	None allocated.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Protect yourself and others from injury. Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental	Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterway contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Avoid generating dusts, do not breathe dust. Use only outdoors or in a well-ventilated area. Tracking: Not required Approved Handlers: Not required Location Certificate: Not required
Storage:	Store in sealed packaging in cool, dry, well ventilated area.
Precautionary Statements:	Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Avoid unintended release to the environment. Wear eye/face protection. Use personal protective equipment as required

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	Workplace Exposure Standards (WES): Borates, Tetra Sodium Salts Anhydrous 1mg.m ⁻³ Decahydrate 5mg.m ⁻³ Pentahydrate 1mg.m ⁻³ Total Exposure Limit (TEL): Not assigned
Protective Equipment:	Respiratory: If dusts present wear dust mask. Eyes/Face: Safety glasses. If dusts present wear goggles.

	Skin: Overalls, Nitrile rubber disposable gloves. Eye wash facilities should be available. Wash hands after working with substance
Engineering Controls:	Handle in well-ventilation area. If dust generated use local extraction to control. Avoid inhalation of dust.
Hygiene Precautions:	Remove protective clothing and wash hands and face after working with substance.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear or White.
Format:	Fine Crystalline product
Odour:	Odourless
Bulk Density:	750kg/m ³
Specific Gravity:	1.72g.cm-3 (20°C)
pH:	9.2 (47g/L at 20°C)
Solubility in Water:	51.4g.L-1 (20°C)
Melting Point:	75°C
Boiling Point:	320°C (loses water)
Vapour Pressure:	0.213hPa. (20°C)
Vapour Density:	Not available.
Auto-ignition temperature:	Material will not ignite.

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use and storage.
Hazardous Polymerisation:	Will not occur.
Hazardous Decomposition Products:	No information available
Conditions to Avoid:	Strong heating.
Materials to Avoid:	Acids, alkaloids and metal salts

Section 11: TOXICOLOGICAL INFORMATION

Health Affects/Symptoms of Exposure:	Short term exposure by all routes is considered toxic. Lethal dose is about 20 grams.
Hazard Classifications:	6.1E, 6.4A, 6.8B
Ingestion:	Severe Reaction. Persistent vomiting and diarrhoea, muscular spasms, dullness, circulatory depression, central nervous system effects, followed by severe shock and coma. Body temperature is likely to be subnormal. A scarlettina rash may cover the entire body.
Inhalation:	Irritation. Causes coughing, shortness of breath.
Skin:	Irritation. May cause redness, itching, pain. Product may be absorbed through skin.
Eye:	Irritation. Possibility of same symptoms as ingestion.
Chronic Exposure:	Prolonged or repeated ingestion or skin contact may cause anorexia, weight loss, vomiting, mild diarrhoea, skin rash, convulsions and anaemia. Suspected of damaging fertility or the unborn child. If exposed or concerned, get medical advice.
Toxicity Data:	LD50 (oral, rat) 2660mg.kg ⁻¹

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	9.1D
Environmental Exposure Limit (EEL):	Not assigned.
Ecotoxicity:	Avoid washing excessive amounts into streams and waterways.

Section 13: DISPOSAL INFORMATION

Product Disposal:	Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land. Reuse material where practicable.
Container Disposal:	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

Section 14: TRANSPORT INFORMATION

UN Number:	None allocated.
Proper Shipping Name:	None allocated.
DG Class:	None allocated.
Other Information:	No special transport requirements necessary.

Section 15: REGULATORY INFORMATION

Exposure Limits:	(see sections 8 & 12)
EPA:	Approved pursuant to the HSNO Act 1996, Approval number HSR002914.
See www.epa.govt.nz for approval controls.	

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.