

Safety Data Sheet

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER	
Product name:	Anhydrous Borax
Other Names:	Dehydrated borax, disodium tetraborate
Chemical formula:	Na ₂ B ₄ O ₇
Recommended Use:	The product is used in industrial manufacturing, in particular in metallurgical fluxes, glass, fibreglass, ceramics, fertilizers, flame retardants.
Company Identification: Address:	Kemcore International Limited 133 CONNAUGHT RD UNIT 703 ALLIANCE COMM BLDG, HONGKONG
Customer Centre:	
Section 2: HAZARD IDENTIFICATION	
Emergency Overview:	Anhydrous Borax is a white odorless, powdered substance that is not flammable, combustible, or explosive, and it presents no unusual hazard if involved in a fire. Anhydrous Borax presents little or no hazard (to humans) and has low acute oral and dermal toxicities. Care should be taken to minimize the amount of Anhydrous Borax released to the environment to avoid ecological effects.
Potential Acute Health Effects	Borax is slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Routes of entry:	In the occupational setting, inhalation is the most important route of exposure. Dermal absorption is usually not important because this product is not absorbed through the intact skin.
Target organs:	No target organs have been determined in humans. High dose animal ingestion studies indicate that the testes might be the target organ.

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Skin contact:	Anhydrous borax does not cause irritation to intact skin.	
Eye contact:	Anhydrous borax is a mild eye irritant.	
Inhalation:	Occasional mild irritation effects to nose and throat may occur from inhalation of anhydrous borax dusts at levels greater than 10 mg/m ³ .	
Ingestion:	Products containing anhydrous borax are not intended for ingestion. Anhydrous borax has low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.	
Chronic Exposure:	May impair fertility.	
Explanation of carcinogenicity:	Not listed as a carcinogen by ACGIH, IARC, NTP or OSHA	
Medical conditions aggravated by exposure:	Any weakness of the lungs, kidneys, or liver will be aggravated	
Section 3: Composition Information		
INGREDIENT	CAS No.	CONTENT
Anhydrous Borax	1330-43-4	> 99%
Section 4: FIRST AID MEASURES		
Inhalation:	No specific treatment is necessary since this product is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.	

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Ingestion:	If amounts greater than one teaspoon are swallowed, give two glasses of water to drink and seek medical attention.
Skin:	Anhydrous borax is non-irritating in the normal occupational setting. If irritation occurs, wash affected area with soap or mild detergent and large amounts of water. Get medical attention if irritation persists.
Eye:	Continuously flush exposed eyes, occasionally lifting the upper and lower lids. Get medical attention if irritation persists for more than 30 minutes
Advice to Doctor:	Adult ingestion of a few grams requires observation only. For ingestion in excess of 6 grams, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analysis of urine or blood is useful only for documenting exposure and should not be used for evaluating severity of poisoning or to guide treatment.
Section 5: FIREFIGHTING MEASURES	
Flash Point:	Not applicable
Combustion Products:	The product is non-combustible. If heated, harmful vapours may be formed.
Extinguishing Media:	Any fire extinguishing media may be used on nearby fires.
Protective Equipment:	Wear self contained breathing apparatus for fire fighting if necessary.
HAZCHEM Code:	None allocated
Section 6: ACCIDENTAL RELEASE MEASURES	

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Spills and Disposal :	Land spill: Vacuum, shovel or sweep up Borax and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during cleanup and disposal. No personal protective equipment is needed to cleanup land spills
Protective Clothing:	Spillage into water: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level.
Environmental:	Do not allow to enter drains, sewers or watercourses. Remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron level to its normal environmental background level.
Section 7: HANDLING AND STORAGE	
Handling :	Avoid contact with eyes, skin, and clothing. Do not breathe dust, vapor, mist, or gas. Use only in a chemical fume hood.
Storage:	Store in a cool, dry place. Store in a tightly closed container.
Other Information:	
Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION	
Exposure Limits:	1 mg/m ³
Protective Equipment:	Where airborne concentrations are expected to exceed exposure limits, NIOSH/MSHA certified respirators should be used. Eye goggles and gloves are not required for normal industrial exposures, but may be warranted if environment is excessively dusty
Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.



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Hygiene Precautions:	Wash hands thoroughly with soap and water after handling and before eating, drinking, or smoking.
Section 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	White, crystalline solid
Odour:	Odourless
Specific Gravity:	1.71
Bulk Density:	1140 kg/m ³
pH:	9.3 (0.1% solution); 9.2 (1.0% solution); 9.3 (4.7% solution)
Solubility in Water:	Slightly soluble in water
Flash Point:	Not applicable
Melting Point:	62°C
Other Information:	
Section 10: STABILITY AND REACTIVITY	
Stability:	Stable under normal temperatures and pressures. Moisture sensitive.
Hazardous Decomposition Products:	Oxides of boron.
Conditions to Avoid:	Water, moisture. Avoid heat.
Materials to	Strong reducing agents. Acetic anhydride. Alkali metals. Inorganic

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Avoid:	hydrides. Potassium. Acetic acid. Alkalis, carbonates and hydroxides. Carbonaten. Hydroxiden.
Section 11: TOXICOLOGICAL INFORMATION	
ERMA Classification:	6.1D (oral), 6.4A, 6.8B
Ingestion:	Low acute oral toxicity
Inhalation:	Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposure to Boric Acid and Anhydrous Borax dust.
Skin:	Low acute dermal toxicity
Eye:	Boric Acid, when applied to the eyes of albino rabbits (Draize test), produced effects of mild erythema and mild tomoderate discharge in 5 of 6 rabbits. All signs subsided by the fourth day after application. Fifty years of occupational exposure history indicates no human eye injury from exposure to Anhydrous Borax.
Chronic Effects:	None known
Other Information:	
Section 12: ECOLOGICAL INFORMATION	
ERMA Classification:	9.1D (crustacean), 9.3C
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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Section 13: DISPOSAL INFORMATION	
Product Disposal::	Small quantities of Borax can usually be disposed of at landfill sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements. Tonnage quantities of product are not recommended to be sent to landfills. Such product should, if possible, be used for an appropriate application.
Container Disposal:	Dispose of in a manner consistent with federal, state, and local regulations.
Section 14: TRANSPORT INFORMATION	
UN Number:	Not applicable.
Proper Shipping Name:	Not applicable.
DG Class:	Not applicable.
UN Packing Group:	Not applicable.
Other Information:	
Section 15: REGULATORY INFORMATION	
Ensure all national/local regulations are observed.	
Clean Air Act (Montreal Protocol): Anhydrous borax was not manufactured with and does not contain any Class I or Class II ozone depleting substances.	
Chemical inventory listing:	
<u>U.S. EPA TSCA Inventory</u> 1330-43-4	
<u>Canadian DSL</u> 1330-43-4	



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EINECS 215-540-4

South Korea 1-760

Japanese MITI (1)-69

Section 16: OTHER INFORMATION