MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA HCS 29 CFR 1910.1200 AND OSHA 174

MSDS# Q-119 Revision # 0

PRODUCT NAME (AS USED ON LABEL): #1 MULTEGA® BORAX

ALTERNATE PRODUCT NAME: SODIUM TETRABORATE-DECAHYDRATE

**EMERGENCY TELEPHONE NUMBER: (602) 253-3334**

SECTION I

MANUFACTURER/DISTRIBUTOR: THE DIAL CORPORATION
111 WEST CLARENDON AVE.
PHOENIX, AZ 85077

TELEPHONE NUMBER FOR GENERAL INFORMATION: (602) 991-3000

SECTION II-HAZARDOUS INGREDIENTS

Finished Product: OSHA (PEL)-N/A ACIGH (TLV)-N/A
Hazardous Components:
Chemical/Common Name CAS Number PEL TLV
Sodium tetraborate decahydrate/Borax 1303-96-4 10 mg/m³ 5 mg/m³

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: ND Melting Point: 62°C
Vapor Density (Air=1): ND Freezing Point: ND
Specific Gravity (Water=1): 1.73 pH: 3% solution: 9.25 @ 20°C
Vapor Pressure (mm Hg.): ND Evaporation Rate (*=1): ND
Volatile by Weight (%): ND Butyl Acetate
Solubility in Water: 5.81% @ 20°C; 65.63% @ 100°C
Appearance/Odor: White, odorless, crystalline solid

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F)/Method Used: Nonflammable
Flammable Limits (LEL/UEL): N/A
Extinguishing Media: Use means suitable to extinguish surrounding fire. Product is
inherent fire retardant.
Special Fire Fighting Procedures: Under intense heat, wear NIOSH-approved self-
contained breathing apparatus. Wear appropriate protective clothing. Cool fire-
exposed containers with water spray.
Unusual Fire and Explosion Hazards: None known.
SECTION V-REACTIVITY DATA

Stability: Stable
Chemical Incompatibility: Elemental zirconium, strong acids, strong oxidizing agents.
Hazardous Decomposition Products: Sodium oxides, boron oxides.
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: Avoid heating with elemental zirconium.

SECTION VI-HEALTH HAZARD DATA

Route of Entry: Inhalation-Likely
Skin-Likely, especially through mucous membranes and damaged skin
Ingestion-Unlikely under normal use conditions for product.

Health Hazards (Acute and Chronic Animal Studies):

- Acute oral LD₅₀ (rat): 6.13 g/kg body wt.
- Acute dermal LD₅₀ (rabbit): Greater than 10 g/kg body wt.

See Hazardous Components Toxicity on sodium tetraborate decahydrate for more information. Product is composed of 100% sodium tetraborate decahydrate.

Carcinogenicity*: NTP IARC Monographs OSHA Regulated
ND NL N/A

*Not determined for product.

Hazardous Components Toxicity:

**Chemical**
Sodium tetraborate decahydrate

**Hazards of Component**
Eye and skin irritant. May be absorbed through the skin, especially damaged skin, producing symptoms similar to ingestion. Ingestion may cause gastrointestinal disturbances, lethargy, erythematous skin reactions, signs of central nervous system stimulation followed by depression, shock, kidney damage, coma and death. Ingestion of 5-10 grams has produced severe vomiting, diarrhea, shock and death. Inhalation of dust may cause respiratory tract-inhalation, coughing, nausea and vomiting. Chronic exposure via ingestion or skin absorption may cause anorexia, weight loss, mild diarrhea, skin rash, and anemia. In chronic feeding studies at high dose levels, testicular atrophy was produced in rats and dogs. Rats fed high levels of borax in reproduction studies became sterile. Mutation references are cited in RTECS (1985). A NTP 2-year feeding study in mice on boric acid, a related boron compound, indicated no evidence of carcinogenicity in either sex of mice.
**Effects of Overexposure:**

**Inhalation** - May cause irritation to the respiratory tract, coughing, nausea, vomiting.

**Ingestion** - May cause CNS and gastrointestinal disturbances, erythematous skin reactions, lethargy. Ingestion of large amounts may produce shock, kidney damage, coma and death.

**Skin** - May cause irritation. Absorption through damaged skin may produce symptoms similar to ingestion.

**Eyes** - May cause irritation, redness, pain.

Medical conditions generally aggravated by exposure: Persons suffering from chronic lung diseases or atopic diseases are more susceptible to the effects of this product.

*********************** SELECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE ****************************

**Steps to be taken in case material is released or spilled:**

**Eye Protection** - If airborne dust is expected, wear chemical resistant safety goggles.

**Skin Protection** - Avoid prolonged or repeated skin contact, Wear protective gloves and impervious clothing.

**Respiratory Protection** - Avoid breathing dust. If airborne dust is expected, wear NIOSH-approved dust respirator.

**Handling:** Avoid eye and skin contact and inhalation of dust. Wash thoroughly after handling.

**Storage:** Keep container tightly closed. Protect from air. Store in a cool dry place. Protect product from physical damage.

**Normal Clean Up:** Sweep or vacuum up and containerize for salvage or disposal. Small residual amounts of material may be flushed with water to sewer.

**Waste Disposal:** Dispose of in an approved waste facility. Prior to disposal, notify local waste authorities to ensure compliance with local, state and federal environmental regulations.

**Other Precautions:** Prevent suspension of dust.

*********************** SELECTION VIII-FIRST AID & MEDICAL EMERGENCY PROCEDURES ****************************

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Get prompt medical attention.

**Skin:** Rinse well with water. If irritation occurs or persists, contact physician or local poison control center.
20 MULE TEA\textsuperscript{a} BORAX (Q-119)

Inhalation: If effects occur, remove victim to fresh air. If breathing is difficult or discomfort persists, get medical attention.

Ingestion: Rinse mouth with water. Give milk or water to dilute. Get prompt medical attention.

Other: Remove contaminated clothing and shoes.

SECTION IX-CONTROL MEASURES-OCCUPATIONAL

Respiratory Protection (Specify Type): Wear NIOSH-approved dust respirator if airborne dust levels are expected to approach or exceed exposure limits for borax.

Ventilation: Maintain adequate ventilation to prevent suspension of dust so as not to exceed established exposure limits for borax.

Local Exhaust - Preferred
Mechanical (General) - *(See above)*
Special - N/A

Protective Gloves: Cloth, general purpose
Eye Protection: Chemical resistant, safety goggles.
Other Protective Clothing or Equipment: Uniforms, labcoats or coveralls; safety shoes.

Work/Hygienic Practices: Provide eye bath and emergency shower. Launder soiled work clothing prior to reuse.

SECTION X-ENVIRONMENTAL IMPACT

Applicable Regulations: 16 CFR 1500 (CPSC)
DOT/EPA Hazard Class: N/A
Shipping Name: See product name.

EPA - SARA Title III Section 313: Toxic chemical - no

NOTE: N/A=Not Applicable, ND=Not Determined, NL=Not Listed, NE=None Established

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Change: New Issue

End of MSDS