Following is a copy of our MSDS (Material Safety Data Sheet) for Boraxo® Powdered Hand Soap. This computer generated MSDS fulfills the federal OSHA Hazard Communication Standard (29 CFR 1910.1200) requirements adopted November 25, 1983. In addition, it fulfills Section 302 (Extremely Hazardous Chemicals), Sections 311 and 312 (Hazardous Chemicals), and Section 313 (Toxic Chemicals) of Title III of the Superfund Amendments & Reauthorization Act (SARA).

We hope you will continue to enjoy the many fine products manufactured by The Dial Corp. If you have comments regarding one of our products, please call our toll free number (1-800-528-0849).

Consumer Information Center
The Dial Corp
MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER/DISTRIBUTOR: THE DIAL CORP

1850 N. CENTRAL
PHOENIX, AZ 85077

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

SECTION II-HAZARDOUS INGREDIENTS

Hazardous Components:

Chemical/Common Name: Sodium tetraborate decahydrate/borax

CAS Number: 1303-96-4

PEL/TLV-Source: OSHA 8-hr TWA PEL, 10 mg/m³
ACGIH TLV-TWA, 5 mg/m³

NFPA Rating: Health=0, Fire=1, Reactivity=0

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: ND
Vapor Density (Air=1): ND
Specific Gravity (Water=1): 0.898
Vapor Pressure (mm Hg): ND
Solubility in Water: Approximately 5% @ 20°C
Appearance/Odor: White granular powder with slight floral odor.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F): None
Flammable Limits (LEL/UEL): None
Extinguishing Media: Not required. Product is inherent fire retardant.
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION V-REACTION DATA

Stability: Stable
Chemical Incompatibility: None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None
SECTION VI: HEALTH HAZARD DATA

Route of Entry: Inhalation - Unlikely under normal use conditions
Skin - Likely
Ingestion - Unlikely under normal use conditions.
Eyes - Unlikely under normal use conditions.

Health Hazards (Acute and Chronic):

Acute:
Inhalation - Respiratory tract irritation has been reported among individuals exposed to high dust levels of sodium tetraborates.

Ingestion - The acute oral LD_{50} for the product in rats is greater than 6.81 g/kg body weight. This value is consistent with the acute oral toxicity in rats of the product's predominant ingredients, borax and soap. See paragraph below for additional information on borate toxicity following exposure by this and other routes, which are considered relevant for predicting borate toxicity by this route.

Skin - Although the primary skin irritation index of the product in rabbits is 0, no effect (16 CFR 1500.41), prolonged contact with aqueous solutions of it would be expected to be irritating to rabbit, and probably human, skin because under similar conditions sodium tetraborate and soap are irritating to rabbit skin. Also, occupational experience with sodium tetraborates, suggests prolonged skin contact with the dry product, which contains a high concentration of borax, would be irritating or drying to the skin.

The acute dermal LD_{50} for the product in rabbits is greater than 2.0 g/kg body weight (16 CFR 1500.40). See paragraph below for additional information on borate toxicity following exposure by this and other routes, which are considered relevant for predicting borate toxicity by this route.

Eyes - The product produces reversible conjunctivitis when instilled in the eyes of rabbits (16 CFR 1500.42). This effect is consistent with the ocular effects of sodium tetraborates and soap.

Chronic: ND for product.

Borate systemic toxicity. Acute and chronic exposure to sodium borates or boric acid, which is chemically and toxicologically similar to sodium borates, produce gastrointestinal, central nervous system, skin, renal and hepatic toxicity, and death in humans. Chronic exposure to these compounds produce growth suppression, testicular degeneration, infertility, death and, possibly red blood cell toxicity in animals.

Most borate poisonings among humans have followed ingestion, instillation into a body cavity, or application to damaged or diseased skin. Many of the reported cases involved infants, who may be a sensitive population to borate toxicity. (Also, recent published literature on boric acid ingestions indicate the toxic potency of these compounds may be dramatically less than indicated in some of the older primary literature or recent secondary sources.

<table>
<thead>
<tr>
<th>Carcinogenicity*</th>
<th>NTP</th>
<th>IARC Monographs</th>
<th>OSHA Regulated</th>
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<tbody>
<tr>
<td>NL</td>
<td>No</td>
<td>No</td>
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</tbody>
</table>
The product has not been tested for this effect.

Effects of Overexposure:

Inhalation - Dryness of mouth, nose, and throat, nose and throat irritation, nosebleeds, dry cough, chest tightness, shortness of breath, and dyspnea have been reported among workers exposed to high dust levels of sodium tetraborates.

Ingestion - Nausea, abdominal pain, vomiting, diarrhea, headache, lethargy, lightheadedness, delirium, convulsions, coma, diminished urine output, alopecia, and an erythematous desquamating rash have been reported among individuals poisoned by sodium tetraborates or boric acid.

Skin - Irritation and chapping.

Eyes - Temporary burning, stinging, or irritation.

Medical conditions generally aggravated by exposure: None

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

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

Eye Protection - None necessary unless direct eye contact with the product is expected or unless high dust levels of the product are produced. In such situations, wear glasses or goggles as appropriate.

Skin Protection - None necessary unless prolonged or extensive exposure to the product is expected or unless skin is damaged or diseased. In such situations, wear borax impermeable gloves, garments, or shoes as appropriate.

Respiratory Protection - None necessary except in areas where airborne dust concentrations of sodium borax exceed established workplace limits. In those areas, wear appropriate NIOSH-approved respirator.

Handling: Retain package integrity.

Storage: Dry indoor storage.

Normal Clean Up: Sweep or vacuum. Rinse area with water.


SECTION VIII: FIRST AID & MEDICAL EMERGENCY PROCEDURES

Eyes: Flush eyes with tepid water, occasionally lifting lids, until all visible material has been removed. If any more than transitory irritation or discomfort occur, call a physician, preferably an ophthalmologist.

Skin: Rinse all material from the skin.

Inhalation: Remove to fresh air.

Ingestion: For amounts exceeding a taste, immediately call a poison control center (e.g. 602-253-3334) or a physician.

SECTION IX: CONTROL MEASURES - OCCUPATIONAL

Respiratory Protection (Specify Type): Wear appropriate NIOSH-approved dust respirator in areas where airborne dust concentrations of borax exceed established workplace limits.

Ventilation: As necessary to prevent airborne concentrations of borax from exceeding applicable workplace limits.
Protective Gloves - None necessary unless prolonged exposure to the product is expected or unless skin is damaged or diseased. In such situations wear borax impermeable gloves.

Eye Protection - None necessary unless direct eye contact with the product is expected or unless high dust levels of the product are produced. In such situations, wear glasses or goggles as appropriate.

Other Protective Clothing or Equipment - None necessary unless prolonged or extensive skin contact is expected or unless skin is damaged or diseased. In such situations, wear appropriate borax impermeable garments or shoes.

Work/Hygienic Practices: Do not eat or drink in work area.

REFERENCES


American Conference of Governmental Industrial Hygienists. Documentation of the Threshold Limit Values and Biological Exposure Indices. Fifth Ed. American Conference of Governmental Industrial Hygienists, Inc., Cincinnati, OH.


SECTION X: ENVIRONMENTAL IMPACT

Applicable Regulations: 16 CFR 500
DOT/EPA Hazard Class: None
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  NIF=No Information Found  NE=None Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.

Date Prepared: 04/24/92

Change: Reviewed and Updated MSDS.

End of MSDS