

MATERIAL SAFETY DATA SHEET

MSDS F-151 REVISION 0

THE DIAL CORPORATION
TECHNICAL AND ADMINISTRATIVE CENTER
15101 NORTH SCOTTSDALE ROAD
SCOTTSDALE, ARIZONA 85254-9934

MEDICAL EMERGENCIES: 1-888-689-9082
CHEMTREC: 1-800-424-9300 (24 Hours Daily)
OTHER INFORMATION: 1-888-468-6673

SUBSTANCE IDENTIFICATION

SUBSTANCE: DRY LAUNDRY DETERGENTS

TRADE NAMES/SYNONYMS: **VIVA POWDER LAUNDRY DETERGENT**

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 88100762

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet differ from the requirements of the CPSC and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: SODIUM CARBONATE CAS# 497-19-8

COMPONENT : SODIUM HYDROXIDE CAS# 1310-73-2

COMPONENT: SODIUM LINEAR ALKYL BENZENESULFONATE CAS# 68081-81-2

COMPONENT: SODIUM PERBORATE MONOHYDRATE CAS# 7632-04-4

COMPONENT: SODIUM SILICATE CAS# 1344-09-8

COMPONENT: SODIUM SULFATE CAS# 7727-73-3

COMPONENT: PROTEASE ENZYME CAS# 9014-01-1

Subtilisins (as 100% pure crystalline enzyme)
0.00006 mg/m³ ACGIH Ceiling Limit
OCCUPATIONAL EXPOSURE LIMITS:

DETERGENT DUST = PARTICULATES NOT OTHERWISE CLASSIFIED (PNOC)
15 mg/m³ OSHA TWA (total dust); 5 mg/m³ OSHA TWA (respirable fraction)
10 mg/m³ ACGIH TWA (total dust); 3 mg/m³ ACGIH TWA (respirable fraction)

Carcinogen status of components: Not listed as carcinogenic by NTP, IARC, or OSHA.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: White base, blue and pink speckles with citrus odor.

pH: 10.6 (1% soln.)

POURED DENSITY: 460 g/l

SOLUBILITY IN WATER: Complete.

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - The fire hazard for this product has not been determined. The hazard(s) of the component(s) with the most severe hazard(s) are:

Slight fire hazard when exposed to heat or flame. Dust-air mixtures may ignite or explode.

This product contains at least one component which is an oxidizer. Oxidizers decompose, especially when heated, to yield oxygen or other gases which will increase the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion or explosion.

FIRE FIGHTING MEDIA - Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.

FIRE FIGHTING - Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

- | | |
|----------------------|---|
| INHALATION: | Dust may cause mucous membrane irritation with coughing and shortness of breath. Direct contact with mucous membranes may result in burns. Exposure to dust level exceeding those associated with home use may cause respiratory sensitization or allergic responses in hypersensitive individuals. |
| SKIN CONTACT: | Repeated or prolonged excessive exposure may cause severe irritation with redness, blistering, skin damage or dermatitis. |
| EYE CONTACT: | Direct contact with dusts may cause severe irritation with redness, pain, blurred vision, and possibly corneal injury. |
| INGESTION: | May cause burns of the mouth, throat and stomach. May also cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea. |

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions and respiratory illnesses (e.g., asthma).

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, strong reducing agents, strong acids, metals.

DECOMPOSITION - Thermal decomposition products may include toxic oxides of sulfur and carbon, and hydrogen sulfide.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store away from incompatible substances, excessive heat and moisture. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

Avoid contact with incompatible substances and excessive heat. Avoid dust formation. Do not expose product to high heat or humidity for long periods of time to avoid reduction of enzyme activity.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Vacuum up and place in suitable clean, dry containers for reclamation or later disposal. Dilute remainder of material with plenty of water (avoid aerosol formation). Ensure adequate ventilation. Do not flush large amounts of spilled material into sewer. Keep unnecessary people away.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where dusts may be generated.

RESPIRATOR - Air contamination monitoring should be carried out where dusts are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where dusty conditions are anticipated.

Practice good laboratory hygiene procedures when handling product.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION: Not applicable.

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product.

TSCA: All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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.

MSDS CREATION DATE: 01/14/05

SUPERCEDES:

REVISION DATE:

REVISION: