

MATERIAL SAFETY DATA SHEET

MSDS F-142 REVISION 2

THE DIAL CORPORATION
CENTER FOR INNOVATION
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SUBSTANCE IDENTIFICATION

SUBSTANCE: AGGLOMERATE FOR DRY DETERGENTS

TRADE NAMES/SYNONYMS: **NONIONIC AGGLOMERATE**

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 99100883; 99101063

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

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: ALCOHOL ETHOXYLATE CAS# 68439-50-9

COMPONENT: SODIUM CARBONATE CAS# 497-19-8

COMPONENT: SODIUM SILICATE CAS# 1344-09-8

COMPONENT: ZEOLITE CAS# 1344-00-9

OCCUPATIONAL EXPOSURE LIMITS:

PRODUCT DUST = PARTICLES NOT OTHERWISE SPECIFIED

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 granular powder.

BULK DENSITY: 600 - 700 g/l

SOLUBILITY IN WATER: Complete.

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - Negligible fire hazard when exposed to heat or flame.

FIRE FIGHTING MEDIA - Dry chemical, carbon dioxide, water spray 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 irritation of the mucous membranes and upper respiratory tract.
- SKIN CONTACT:** Repeated or prolonged excessive exposure may cause severe irritation with redness, swelling, skin damage or dermatitis.
- EYE CONTACT:** Direct contact with dusts may cause severe irritation with redness, pain, tearing, and possibly corneal injury.
- INGESTION:** May 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.

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 carbon, irritating aldehydes and ketones.

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

STORAGE AND DISPOSAL

Store away from incompatible substances and excessive heat. 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.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Sweep or vacuum up and place in suitable clean, dry containers for reclamation or later disposal. 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.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION:	Not applicable.
EPA - SARA TITLE III SECTION 313:	Toxic chemical - None.
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.

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MSDS CREATION DATE: 02/05/02

SUPERSEDES: 07/16/02 Rev. 1

REVISION DATE: 10/27/04

REVISION: Updated ID Numbers, Hazardous Ingredients and Physical & Chemical Data Sections.