

# MATERIAL SAFETY DATA SHEET

## SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** Listo-Shield **Date Prepared** May 10, 2010  
**Product Number(s):** Part #230-24 **Replaces** Jun. 1, 2006  
**Product Use:** Floor Drain Treatment  
**Company Name:** Away Chemical Corporation **Telephone Numbers: Emergencies:**  
7800 Bissonnet, Suite 310 Medical 800 228-5635  
Houston, TX 77074 Chemtrac 800 424-9300  
**Product Class:** Quaternary Ammonium Salt Chemtrac Int'l 703 527-3887

## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200):

This product is not hazardous as defined by OSHA.

CAS  
Registry No.  
68391-01-5

**Chemical Name:** n-Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) dimethyl benzyl ammonium chloride

## SECTION 3 HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May be irritating to sensitive skin. Maybe harmful if swallowed

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** May be irritating to eyes.

**SKIN CONTACT:** May be irritating to sensitive skin.

**INHALATION:** Not an inhalation hazard. (solid form)

**INGESTION:** May be harmful if swallowed. Ingestion may result in moderate burns to mouth and esophagus stomach.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

**CARCINOGENICITY:** NTP? No **IARC Monographs?** No **OSHA Regulated?** No

## SECTION 4 FIRST-AID MEASURES

**EYE CONTACT:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

**SKIN CONTACT:** Wash with soap and plenty of water. If irritation develops and persists, get medical attention.

**INHALATION:** If breathing is difficult: Remove to fresh air. Get medical attention.

**INGESTION:** Do not induce vomiting! Immediately drink large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5 FIRE-FIGHTING MEASURES

**FLASHPOINT:** Not determined

**FLAMMABLE LIMITS:** LEL: Not determined **UEL:** Not determined

**AUTOIGNITION TEMP:** Not applicable

**FIRE EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, water fog.

**SPECIAL INFORMATION:** None known.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### SPILL AND LEAK PROCEDURES:

Solid product. Pick up or sweep up and place in original or suitable container. Use as normal. Spillage is not possible unless heated to melting point and then spilled. Scrap up.

## SECTION 7 STORAGE AND HANDLING

**HANDLING PROCEDURES:** Avoid skin and eye contact. Wash thoroughly after handling. As With all chemical, good industrial hygiene practices should be followed when handling material.

**STORAGE PROCEDURES:** DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.  
Keep the container tightly closed and in a cool, well-ventilated place.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### PERSONAL PROTECTION EQUIPMENT:

**EYES/FACE:** Face shield (if splashing is possible)

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**FLASH POINT:** Not determined  
**SPECIFIC GRAVITY:** 0.981 @ 50% aqueous solutions  
**VAPOR PRESSURE:** Not determined  
**VAPOR DENSITY:** Not determined  
**ph VALUE:** 6.8 – 7.8  
**SOLUBILITY IN WATER:** Complete  
**BOILING POINT:** Not applicable  
**EVAPORATION RATE (Butyl Acetate = 1):** Not determined  
**APPEARANCE AND ODOR:** Amorphous Crystalline Solid

**SECTION 10 STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable under normal conditions.  
**CONDITIONS TO AVOID:** Keep away from heat and incompatible materials.  
**INCOMPATIBILITY:** This product may react with strong oxidizing agents.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY:** Not listed as carcinogenic according to IARC, NTP OR OSHA  
**MUTAGENICALLY:** Testing has shown this product to be non-mutagenic  
**LD50 VALUE:**  
 Oral LD50 (rat) => 525  
 Dermal LD50 (rabbit) => 2,000 < or equal to 20,000 mg/kg

**SECTION 12 ECOLOGICAL INFORMATION**

**ECOTOXICITY:** Very toxic to aquatic organisms  
**ENVIRONMENTAL FATE:** This product is biodegradable

**SECTION 13 DISPOSAL CONSIDERATIONS****DISPOSAL INSTRUCTIONS**

**CONTAINER DISPOSAL:** Dispose of in a sanitary landfill, or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14 TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION:** Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

**SECTION 15 REGULATORY INFORMATION**

Ingredient Name	CAS Registry No.	%
<b>Chemical Name:</b> : n-Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> ) dimethyl benzyl ammonium chloride	68391-01-5	_

**SECTION 16 OTHER INFORMATION**

**NFPA RATING:** Health – 1, Flammability – 0, Reactivity – 0

**HMIS® RATING:** Health – 1, Flammability – 0, Reactivity – 0

HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

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**Completed by:** Away Chemical Corp.

**Completed on:** May 10, 2010