SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

This SDS is used for the following Arcot Liquid Laundry Detergents & Laundry Additives:

Arcot #6821 Max-Control Laundry Detergent
Arcot #9704 PREMIUM LLD (and other versions of 9704)
Arcot #9705 MAGIC 2000 (previously Majestic)
Arcot #9708 ELITE LLD
Arcot #9821 DELUXE LLD (and other versions of 9821)

Manufacturer: Arcot Manufacturing Corporation, 2950 Mowery Road, Houston, Texas, U.S.A. 77045
Arcot Customer Service Telephone: 713-413-9700
Website: www.ArcotManufacturing.com

Recommended Use: Detergent or detergent additive for laundry machines
Restrictions On Use: Do not use on sensitive fabrics. If used by hand, wear impermeable gloves.

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Hazard Classification:

Acute Toxicity, Oral – Category 4
Eye Damage/Irritation – Category 2A
Skin Corrosion/Irritation – Category 2

Signal Word: **WARNING**



Hazard Statements:

H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H315: Causes skin irritation.

Precautionary statements:

Prevention:

P234: Keep only in original container.
P235: Keep cool.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves and eye protection or face protection.

Response:

P305 + P351 + P338 + P337 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

P301 + P330 + P331 + P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a doctor if you feel unwell.

P303 + P352 + P362 + P364 + P332 + P313: IF ON SKIN (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P315: If any irritation persists, get immediate medical attention.

Specific treatment (see additional information in Section 4 of this SDS and on the label)

P370 + P378: In case of fire: Use water spray, alcohol-resistant foam, carbon dioxide (CO_2) or dry chemical to extinguish.

Storage:

P410: Protect from sunlight.

P411: Store at temperatures not exceeding 90°F.

Disposal:

P501: Dispose of contents and container to an approved waste disposal plant in accordance with applicable local, state, federal and international regulations.

Other Hazards: Slipping hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Concentration
Water	7732-18-5	Proprietary
Ingredients are nonhazardous and/or considered trade secrets. However, all hazardous aspects of the ingredients and of this mixture are considered and included. The exact percentage of composition has been withheld as a trade secret. This SDS is used for a group of substantially similar mixtures.		

4. FIRST-AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: Move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash skin with soap and plenty of water. Consult a physician. Wash contaminated clothing before reuse.

In case of eye contact: Immediately and thoroughly flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If easy to do, remove contact lenses. Continue rinsing eyes and consult a physician, preferably an ophthalmologist.

If swallowed: Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth with water. Do not induce vomiting. Consult a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed: May irritate and cause redness and pain. May cause eye damage and pain if not treated immediately. Harmful if swallowed.

Treatment: Treat symptomatically. If any irritation or symptoms persists, seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

Specific hazards that may develop from this product during fire: Hazardous decomposition and byproducts may include carbon oxides (such as carbon monoxide and carbon dioxide) and toxic fumes.

Suitable extinguishing media: Product is not flammable. Water spray, alcohol-resistant foam, dry chemical or carbon dioxide may be used for surrounding fires.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters: Wear self-contained breathing apparatus and full protective clothing in case of fire. In spill situations, wear chemical protective clothing. Keep unauthorized personnel away. Evacuate residents who are downwind of fire. Isolate fire and deny unnecessary entry. Move containers from fire area if this is possible without hazard.

Precautions for firefighters: Use water spray to keep fire-exposed containers cool.

General advice: Use standard firefighting procedures. Avoid breathing vapors. Do not mix with strong acids. Avoid product contact with strong oxidizing agents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. See section 8 for personal protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation.

Methods and materials for containment and cleanup procedures:

Large Spills: Stop the flow of material, if this is safe. Completely contain spilled material with dikes, sandbags, etc., where this is possible. Spilled material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water.

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Keep in suitable, closed containers for disposal. For waste disposal, see Section 13 of the SDS.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE

Precautions for safe handling: See Sections 2 and 8. Read the SDS and label carefully and completely before handling this product. Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not breathe mist. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible. Observe good hygiene practices. Do not eat, drink or smoke where the product is being used. Wash thoroughly after handling.

Conditions for safe storage: Keep containers tightly closed, properly labeled and upright to prevent leakage. Store in a cool, dry, shaded and well-ventilated place away from sunlight and extreme temperatures. Store at temperatures between 55°F and 90°F. Containers which are opened must be carefully resealed. Do not mix with other chemicals. Store away from acids and other incompatible materials (see section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls: Provide sufficient mechanical ventilation to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Ensure safety shower is available near all areas of bulk storage, delivery and use.

Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Hand Protection: Wear appropriate impermeable, chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after handling this product.

Protective Material Types: Natural rubber, Neoprene or Nitrile with minimum layer thickness of 0.11 mm and break through time of 480 minutes.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General Industrial Hygiene Considerations: Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practices.

Environmental Exposure Controls: Follow best practice for site management and disposal of waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: liquid Color: clear colorless, blue, amber, green or other colors
Odor	odorless or pleasant
Odor Threshold	No data available
pH	11
Freezing point	approximately 32°F
Initial boiling point	No data available
Flash point	No data available (Not Flammable)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	approximately 1 g/mL (8.4 Lb./Gal.) at 25 °C (77 °F)
Water solubility	completely soluble
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressures in original containers.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Contact with incompatible materials. May react with strong acids and oxidizing agents. Do not mix with other chemicals. Extreme temperatures. Direct sunlight.

Incompatible materials: Oxidizing agents and acids.

Hazardous decomposition products: In the event of fire, see section 5. During fires, hazardous decomposition and byproducts may include carbon oxides (such as carbon monoxide and carbon dioxide) and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Ingestion: Harmful if swallowed.

Inhalation: May cause irritation to the respiratory system.

Skin contact: May cause skin irritation.
Eye contact: Causes serious eye irritation. May cause eye damage.

Symptoms related to the physical, chemical and toxicological characteristics:

Exposure symptoms may include burning sensation. After exposure, there may be a time delay before irritation and other effects occur. May irritate the skin, eyes, and mucous membranes. Eye contact causes irritation with possible corneal damage and blindness. Ingestion may cause irritation and nausea.

Information on toxicological effects:

Acute oral toxicity: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Acute dermal toxicity: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Acute inhalation toxicity: Under normal conditions of use, no health effects are expected. Vapor may cause irritation of the upper respiratory tract (nose and throat). Prolonged excessive exposure to mist may cause serious adverse effects.

Germ cell mutagenicity: No data available

Carcinogenicity: This product is not classified as a carcinogen by NTP, IARC, ACGIH or OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

Aquatic toxicity: no data available for this product. In concentrated form, due to its alkaline pH, this product may be harmful to aquatic organisms. Avoid release of unused, concentrated product into the environment.

Biodegradation: The organic ingredients of this product are biodegradable. Inorganic material are not subject to biodegradation.

Persistence: no data available for this product. Most of the ingredients of this mixture are believed to either be biodegradable or exist in the disassociated state in the environment.

Bio-accumulative potential: no data available for this product. Based on ingredient studies, this product is not expected to bio-concentrate in organisms.

Mobility in soil: no data available for this product.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

See section 8.

Disposal Instructions: Collect and reclaim or dispose in sealed HDPE containers through a licensed disposal company. Unused product and its container must be disposed of as alkaline waste. It may be neutralized using a weak acid. Do not allow this material to drain into sewers or water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents and container in accordance with local, regional, national and international regulations.

Contaminated packaging: If emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT (US): Not regulated by DOT.

Reportable Quantity (RQ): N.A.

Poison Inhalation Hazard: No

15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 302 Components (Extremely Hazardous Substances): None of the ingredients are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: None

SARA 311/312 Hazards: Acute (Immediate) Health Hazard. Chronic (Delayed) Health Hazard.

CERCLA Hazardous Substance List (40 CFR 302.4): None

16. OTHER INFORMATION

HMIS & NFPA Ratings: Health = 1 Fire = 0 Reactivity = 0

HMIS & NFPA ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Abbreviations:
ACGIH = American Conference of Governmental Industrial Hygienists
CAS = Chemical Abstract Service
GHS = Globally Harmonized System
HCS = Hazard Communication Standard
N.A. = Not Available or Not Applicable
NIOSH = National Institute for Occupational Safety & Health
PEL = Permissible Exposure Limit
RTECS = Registry of Toxic Effects of Chemical Substances
STEL = Short Term Exposure Limit
TLV = Threshold Limit Values
TWA = Time Weighted Average limit or ceilings (C) (exposure limit)

DISCLAIMER: The information contained herein is based upon data obtained from sources believed to be reliable and reflects our best professional judgment. Since it is impossible to anticipate all of the conditions under which our products may be used, we do not guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his or her particular purpose and should comply with all federal, state and local regulations. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. We shall not be held liable for any damage resulting from handling or from contact with the above product or from improper use of our products. We do not provide any warranties, expressed or implied, and do not assume any responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. We update SDS and labels on a regular basis. Please do not hesitate to contact us for current information.

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