

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

This SDS is used for the following Arcot products:

Arcot #6828 Max-Control Laundry Sizing

Arcot #9524 On-Guard Concentrated Liquid Starch (and other versions of 9524)

Arcot #9827 Deluxe Laundry Starch (and other versions of 9827)

Manufacturer: Arcot Manufacturing Corporation, 2950 Mowery Road, Houston, Texas, U.S.A. 77045

Arcot Customer Service Telephone: 713-413-9700

Website: [www.ArcotManufacturing.com](http://www.ArcotManufacturing.com)

Recommended Use: Laundry Sizing

Restrictions On Use: Do not use on sensitive or untested fabrics.

## 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): This product is not classified as a hazardous substance or mixture.

Pictogram: No pictogram is required.

### Precautionary statements:

#### Prevention:

P234: Keep only in original container.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use in a well-ventilated area.

P280: Wear protective gloves, protective clothing and eye protection or face protection.

Avoid contact with eyes and skin. Do not ingest or inhale.

#### Response:

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P362 + P353 + P363: IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P391: Collect spillage.

P370 + P378: In case of fire: Use water spray, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>) or dry chemical to extinguish.

#### Storage:

P404: Store in a closed container.

P410: Protect from sunlight.

P411: Store at temperatures not exceeding 85°F.

Protect from freezing.

Disposal:

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

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredients</b>	<b>CAS #</b>	<b>Concentration</b>
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 to fresh air. If symptoms persist, call 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.

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.

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: There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Hazardous decomposition and byproducts may include carbon oxides (such as carbon monoxide and carbon dioxide) and other unknown substances that may be toxic or irritating.

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

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: This product is an aqueous mixture that will not burn. Dried product film will burn in a fire.

## **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.

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, then absorbed and collected. Absorb spill with inert material (e.g., diatomite, 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. Avoid unnecessary exposure. Do not get in eyes or on clothing. Do not taste or swallow. Use only with adequate ventilation. Wear appropriate personal protective equipment. Wear chemically resistant gloves to prevent prolonged or repeated contact. Observe good hygiene practices. Do not eat, drink or smoke where the product is being used. Wash thoroughly after handling. Protect from freezing.

Conditions for safe storage: Keep only in original containers. 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 85°F. Containers which are opened must be carefully resealed. Do not mix with other chemicals.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Appropriate engineering controls: Provide sufficient mechanical ventilation.

Personal Protective Equipment (PPE):

**Eye Protection:** Wear chemical safety goggles with a face shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection:** With sensitive skin, open wounds or skin cuts, 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:** With sensitive skin or cuts, wear appropriate impermeable, chemical-resistant gloves such as nitrile rubber. 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:** Local exhaust is generally sufficient to prevent overexposure. 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).

Handle in accordance with good hygiene and safety practice. Do not eat, drink or smoke where the product is being used. Wash thoroughly after handling.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Form: liquid Color: white, pale blue or other colors
Odor	odorless or pleasant
Odor Threshold	No data available
pH	5
Freezing point	approximately 32°F
Initial boiling point	approximately 212°F
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 1.0-1.1 g/mL (8.4-9.2 Lb./Gal.) at 25 °C (77 °F)
Water solubility	dispersible
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: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Direct sunlight. Extreme temperatures. Exposure to contaminants such as bacteria, mold and mildew.

Incompatible materials: None known.

Hazardous decomposition products: During fires, hazardous decomposition and byproducts may include carbon oxides (such as carbon monoxide and carbon dioxide) and other unknown substances that may be toxic or irritating. See section 5.

## **11. TOXICOLOGICAL INFORMATION**

Likely routes of exposure:

Ingestion: May be harmful if swallowed.

Inhalation: May cause irritation to the respiratory system.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation. May cause eye damage.

Symptoms related to the physical, chemical and toxicological characteristics:

Exposure symptoms may include irritation. May irritate the skin, eyes, and mucous membranes. Eye contact may cause irritation. Ingestion may cause irritation. Skin contact may cause dryness of skin.

Information on toxicological effects: May be harmful if swallowed.

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.

Biodegradation: no data available for this product.

Persistence: no data available for this product.

Bio-accumulative potential: no data available for this product.

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: To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Do not allow concentrated product 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: None

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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