



## MATERIAL SAFETY DATA SHEET

### 1. COMPANY AND PRODUCT IDENTIFICATION

**DUNCAN ENTERPRISES**  
**5673 East Shields Avenue**  
**Fresno, CA 93727**  
**559-291-4444**  
**559-291-9444 (Fax)**

#### EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm  
Pacific Standard Time  
Spill and Off-Hour  
Health Emergencies: 800-424-9300 U.S. and Canada  
703-527-3887 Outside U.S. and  
Canada (Collect)

**Product Name:** ALEENE'S ORIGINAL TACKY GLUE  
**Synonym Name(s):** Water-Based Adhesive

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Family:** Water based polymer emulsion  
**Component** **CAS Number** **Concentration %**  
None Hazardous

### 3. HAZARDS IDENTIFICATION

**Emergency Overview** Not considered as hazardous  
**Eye Contact:** Slight / mild irritant  
**Skin Contact:** Repeated or prolonged skin contact may result in mild irritation  
**Inhalation:** Vapor may be an irritant to respiratory tract  
**Ingestion:** Ingestion may cause irritation of the gastrointestinal tract

### 4. FIRST AID MEASURES

**Eye Contact:** Irrigate with eyewash solution or clean water until pain is relieved. Obtain medical attention.  
**Skin Contact:** Wash skin with soap and water. If symptoms develop, obtain medical attention.  
**Inhalation:** Remove to fresh air. Get medical attention if irritation persists.  
**Ingestion:** Treat symptomatically and supportively. Get medical attention. DO NOT Attempt to give anything by mouth to an unconscious person.

### 5. FIRE FIGHTING MEASURES

**Autoignition Temperature:** Not Available  
**Flash Point:** > 212° F  
**Extinguisher Media:** Water spray or fog, CO<sub>2</sub>, Dry Chemical, Foam  
**Special Firefighting Procedures:** Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.  
**Fire & Explosion Hazards:** This is a water-based product and presents no particular fire or explosion hazard. Dry polymer film will burn. Product contains low level of organic volatiles which may be emitted at elevated temperatures.  
**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, unknown hydrocarbons  
**Upper Explosive Limit (%):** Not Applicable  
**Lower Explosive Limit (%):** Not Applicable  
**NFPA Flammability Hazard Class:** 0 = Insignificant

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

## 7. HANDLING AND STORAGE

**Storage Temperature:** 40° - 100°F

**Handling / Storage:** Avoid extreme temperatures. Protect from freezing. This material should not be spilled, discharged, or flushed into sewers or public waterways. Product contains low level of organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated area. Avoid breathing vapors.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

**Ventilation Requirements:** General

**Eye Protection Requirements:** Wear safety glasses with side shields. Protect against splashing.

**Glove Requirements:** The use of chemically resistant gloves is recommended.

**Clothing Requirements:** Uniforms, coveralls, or a lab coat should be worn. Rubber boots and apron should be worn if exposure is severe.

**Change / Removal of Clothing:** Remove contaminated clothing and launder before reuse.

**Wash Requirements:** Wash before eating, drinking, or using toilet facilities.

**Respirator Requirements:** None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritating.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| <b>Pure Material or Mixture:</b>                | Mixture                      |
| <b>Physical Form:</b>                           | Liquid                       |
| <b>Color:</b>                                   | White                        |
| <b>Odor:</b>                                    | Slight                       |
| <b>Odor Threshold:</b>                          | Not Available                |
| <b>pH:</b>                                      | Approximately 4.5            |
| <b>pH in 1% Solution:</b>                       | Not applicable               |
| <b>Oxidizing Properties:</b>                    | Not applicable               |
| <b>Boiling Point:</b>                           | > 212°F                      |
| <b>Melting / Freezing Point:</b>                | Approximately 32°F           |
| <b>Solubility in Water:</b>                     | Miscible                     |
| <b>Partition Coefficient (n-octanol/water):</b> | Not applicable               |
| <b>Specific Gravity (Water = 1):</b>            | 1.08                         |
| <b>Bulk Density:</b>                            | 9.0 lb / gal                 |
| <b>Evaporation Rate (Water = 1):</b>            | 1                            |
| <b>Vapor Pressure:</b>                          | 17.5 mm Hg @ 20°C (68°F)     |
| <b>Vapor Density (Air = 1):</b>                 | > 1.0                        |
| <b>Volatiles:</b>                               | Approximately 50% / wt       |
| <b>Volatile Organic Compounds:</b>              | Estimated to be 0.045 lb/gal |
| <b>Autoignition Temperature:</b>                | Not available                |
| <b>Flash Point:</b>                             | > 212°F                      |

## 10. STABILITY AND REACTIVITY

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Stability:</b>                    | Stable                                            |
| <b>Materials to Avoid:</b>           | Strong oxidizers, materials that react with water |
| <b>Conditions to Avoid:</b>          | Protect from temperatures below 40° F             |
| <b>NFPA Reactivity Hazard Class:</b> | 0 = Stable                                        |
| <b>Hazardous Polymerization:</b>     | Hazardous polymerization will not occur.          |

## 11. TOXICOLOGICAL INFORMATION

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| <b>Route of Entry</b>       | Eye contact; skin contact; inhalation; ingestion                                    |
| <b>Chronic (Long Term)</b>  |                                                                                     |
| <b>Effects of Exposure:</b> | The toxicological properties of this product have not been fully evaluated.         |
|                             | Use of good industrial hygiene practices is required. Avoid direct contact          |
| <b>Target Organs:</b>       | with skin or eyes. Do not ingest or inhale.                                         |
| <b>Carcinogen:</b>          | Not applicable                                                                      |
| <b>Product Toxicology</b>   | No                                                                                  |
| <b>Product Information:</b> | Unlikely to cause harmful effects under recommended conditions of handling and use. |

## 12. ECOLOGICAL INFORMATION

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential to Bioaccumulate:</b> | Unknown          |
| <b>Aquatic Toxicity:</b>           | None Established |

## 13. DISPOSAL CONSIDERATIONS

|                                  |                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste Disposal Methods:</b>   | Waste disposal should be in accordance with existing federal, state, or local legislation.                      |
| <b>Empty Container Warnings:</b> | Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied. |

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Information

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>DOT Shipping Name:</b>       | Adhesive Glues, NOI 4620 Sub. 5 |
| <b>DOT Hazard Class:</b>        | Non-hazardous                   |
| <b>DOT Reportable Quantity:</b> | None                            |

### United Nations Information

|                     |      |
|---------------------|------|
| <b>U.N. Number:</b> | None |
| <b>U.N. Class:</b>  | None |

The information provided herein may not include the impact of additional regulatory requirements (e.g., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/or marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

## 15. REGULATORY INFORMATION

**TSCA:** All components are on the TSCA Inventory  
**FDA:** 21CFR175.105  
**SARA/Title III:** This product contains no substances at or above the reported threshold under Section 313, based on available data.

### CALIFORNIA PROPOSITION 65

**WARNING:** This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm:

| Component | CAS Number |
|-----------|------------|
|-----------|------------|

|                    |         |
|--------------------|---------|
| Formaldehyde (gas) | 50-00-0 |
|--------------------|---------|

Unless a concentration is specified in Section 2 of the MSDS, the above chemical(s) are present in trace amounts.



Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

## 16. OTHER INFORMATION

### Table of Abbreviations

|                |                                                                      |
|----------------|----------------------------------------------------------------------|
| <b>ACGIH</b>   | American Conference of Governmental Industrial Hygienists            |
| <b>ANSI</b>    | American National Standards Institute                                |
| <b>ASTM</b>    | American Society for Testing Materials                               |
| <b>°C</b>      | Degrees Centigrade                                                   |
| <b>CAS</b>     | Chemical Abstract Service                                            |
| <b>CERCLA</b>  | Comprehensive Environmental Response, Compensation and Liability Act |
| <b>CFR</b>     | Code of Federal Regulations                                          |
| <b>CPR</b>     | Controlled Products Regulations                                      |
| <b>DOT</b>     | Department of Transportation                                         |
| <b>EPA</b>     | Environmental Protection Agency                                      |
| <b>°F</b>      | Degrees Fahrenheit                                                   |
| <b>FDA</b>     | Food & Drug Administration                                           |
| <b>Hg</b>      | Mercury                                                              |
| <b>HMIS</b>    | Hazardous Materials Identification System                            |
| <b>IARC</b>    | International Agency for Research on Cancer                          |
| <b>LD</b>      | Lethal Dose                                                          |
| <b>mg / kg</b> | Milligram per kilogram                                               |
| <b>mm</b>      | Millimeter                                                           |
| <b>MSDS</b>    | Material Safety Data Sheet                                           |
| <b>MSHA</b>    | Mine Safety and Health Administration                                |
| <b>N / A</b>   | Not Applicable                                                       |
| <b>NFPA</b>    | National Fire Protection Association                                 |
| <b>NIOSH</b>   | National Institute for Occupational Safety and Health                |
| <b>NTP</b>     | National Toxicology Program                                          |
| <b>OSHA</b>    | Occupational Safety and Health Administration                        |
| <b>ppm</b>     | Parts per million                                                    |
| <b>SARA</b>    | Superfund Amendment and Reauthorization Act                          |
| <b>STEL</b>    | Short-Term Exposure Limit                                            |

**16. OTHER INFORMATION (Continued)**

**Table of Abbreviations (Continued)**

|              |                                                  |
|--------------|--------------------------------------------------|
| <b>TSCA</b>  | Toxic Substances Control Act                     |
| <b>TWA</b>   | Time - Weighted Average                          |
| <b>U.N.</b>  | United Nations                                   |
| <b>WHMIS</b> | Workplace Hazardous Materials Information System |
| <b>&gt;</b>  | Greater Than                                     |
| <b>&lt;</b>  | Less Than                                        |

**Creation Date:** 04/06/93  
**Revision Date:** 07/23/07  
**Technical Contact:** Frank Peters  
Senior R&D Chemist  
Duncan Enterprises  
5673 East Shields Avenue  
Fresno, CA 93727  
559-291-4444  
559-291-9444 (Fax)

**Disclaimer**

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.



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**Product Name:** ALEENE'S ORIGINAL TACKY BRUSH ON GLUE  
**Synonym Name(s):** Water-Based Adhesive

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Family:** Water based polymer emulsion  
**Component** **CAS Number** **Concentration %**  
None Hazardous

## 3. HAZARDS IDENTIFICATION

**Emergency Overview** Not considered as hazardous  
**Eye Contact:** Slight / mild irritant  
**Skin Contact:** Repeated or prolonged skin contact may result in mild irritation  
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**Ingestion:** Ingestion may cause irritation of the gastrointestinal tract

## 4. FIRST AID MEASURES

**Eye Contact:** Irrigate with eyewash solution or clean water until pain is relieved. Obtain medical attention.  
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**Inhalation:** Remove to fresh air. Get medical attention if irritation persists.  
**Ingestion:** Treat symptomatically and supportively. Get medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

**Autoignition Temperature:** Not Available  
**Flash Point:** > 212° F  
**Extinguisher Media:** Water spray or fog, CO<sub>2</sub>, Dry Chemical, Foam  
**Special Firefighting Procedures:** Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.  
**Fire & Explosion Hazards:** This is a water-based product and presents no particular fire or explosion hazard. Dry polymer film will burn. Product contains low level of organic volatiles which may be emitted at elevated temperatures.  
**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, unknown hydrocarbons  
**Upper Explosive Limit (%):** Not Applicable  
**Lower Explosive Limit (%):** Not Applicable

**Duncan Enterprises Material Safety Data Sheet – Aleene's Original Tacky Glue**

**NFPA Flammability Hazard Class:** 0 = Insignificant

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

## 7. HANDLING AND STORAGE

**Storage Temperature:** 40° - 100°F  
**Handling / Storage:** Avoid extreme temperatures. Protect from freezing. This material should not be spilled, discharged, or flushed into sewers or public waterways. Product contains low level of organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated area. Avoid breathing vapors.

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**Ventilation Requirements:** General  
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**Glove Requirements:** The use of chemically resistant gloves is recommended.  
**Clothing Requirements:** Uniforms, coveralls, or a lab coat should be worn. Rubber boots and apron should be worn if exposure is severe.  
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**Respirator Requirements:** None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritating.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Pure Material or Mixture:** Mixture  
**Physical Form:** Liquid  
**Color:** White  
**Odor:** Slight  
**Odor Threshold:** Not Available  
**pH:** Approximately 4.5  
**pH in 1% Solution:** Not applicable  
**Oxidizing Properties:** Not applicable  
**Boiling Point:** > 212°F  
**Melting / Freezing Point:** Approximately 32°F  
**Solubility in Water:** Miscible  
**Partition Coefficient (n-octanol/water):** Not applicable  
**Specific Gravity (Water = 1):** 1.08  
**Bulk Density:** 9.0 lb / gal  
**Evaporation Rate (Water = 1):** 1  
**Vapor Pressure:** 17.5 mm Hg @ 20°C (68°F)  
**Vapor Density (Air = 1):** > 1.0  
**Volatiles:** Approximately 50% / wt  
**Volatile Organic Compounds:** Estimated to be 0.045 lb/gal  
**Autoignition Temperature:** Not available  
**Flash Point:** > 212°F



## 10. STABILITY AND REACTIVITY

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Stability:</b>                    | Stable                                            |
| <b>Materials to Avoid:</b>           | Strong oxidizers, materials that react with water |
| <b>Conditions to Avoid:</b>          | Protect from temperatures below 40° F             |
| <b>NFPA Reactivity Hazard Class:</b> | 0 = Stable                                        |
| <b>Hazardous Polymerization:</b>     | Hazardous polymerization will not occur.          |

## 11. TOXICOLOGICAL INFORMATION

|                                                 |                                                                                                                                                               |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Route of Entry</b>                           | Eye contact; skin contact; inhalation; ingestion                                                                                                              |
| <b>Chronic (Long Term) Effects of Exposure:</b> | The toxicological properties of this product have not been fully evaluated.<br><br>Use of good industrial hygiene practices is required. Avoid direct contact |
| <b>Target Organs:</b>                           | with skin or eyes. Do not ingest or inhale.                                                                                                                   |
| <b>Carcinogen:</b>                              | Not applicable<br>No                                                                                                                                          |
| <b>Product Toxicology Product Information:</b>  | Unlikely to cause harmful effects under recommended conditions of handling and use.                                                                           |

## 12. ECOLOGICAL INFORMATION

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential to Bioaccumulate:</b> | Unknown          |
| <b>Aquatic Toxicity:</b>           | None Established |

## 13. DISPOSAL CONSIDERATIONS

|                                  |                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste Disposal Methods:</b>   | Waste disposal should be in accordance with existing federal, state, or local legislation.                      |
| <b>Empty Container Warnings:</b> | Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied. |

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Information

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>DOT Shipping Name:</b>       | Adhesive Glues, NOI 4620 Sub. 5 |
| <b>DOT Hazard Class:</b>        | Non-hazardous                   |
| <b>DOT Reportable Quantity:</b> | None                            |

### United Nations Information

|                     |      |
|---------------------|------|
| <b>U.N. Number:</b> | None |
| <b>U.N. Class:</b>  | None |

The information provided herein may not include the impact of additional regulatory requirements (e.g., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/or marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

## 15. REGULATORY INFORMATION

**TSCA:** All components are on the TSCA Inventory  
**FDA:** 21CFR175.105  
**SARA/Title III:** This product contains no substances at or above the reported threshold under Section 313, based on available data.

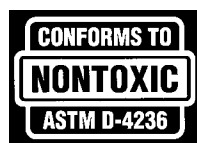
### CALIFORNIA PROPOSITION 65

**WARNING:** This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm:

| Component | CAS Number |
|-----------|------------|
|-----------|------------|

|                    |         |
|--------------------|---------|
| Formaldehyde (gas) | 50-00-0 |
|--------------------|---------|

Unless a concentration is specified in Section 2 of the MSDS, the above chemical(s) are present in trace amounts.



Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

## 16. OTHER INFORMATION

### Table of Abbreviations

|                |                                                                      |
|----------------|----------------------------------------------------------------------|
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| <b>ANSI</b>    | American National Standards Institute                                |
| <b>ASTM</b>    | American Society for Testing Materials                               |
| <b>°C</b>      | Degrees Centigrade                                                   |
| <b>CAS</b>     | Chemical Abstract Service                                            |
| <b>CERCLA</b>  | Comprehensive Environmental Response, Compensation and Liability Act |
| <b>CFR</b>     | Code of Federal Regulations                                          |
| <b>CPR</b>     | Controlled Products Regulations                                      |
| <b>DOT</b>     | Department of Transportation                                         |
| <b>EPA</b>     | Environmental Protection Agency                                      |
| <b>°F</b>      | Degrees Fahrenheit                                                   |
| <b>FDA</b>     | Food & Drug Administration                                           |
| <b>Hg</b>      | Mercury                                                              |
| <b>HMIS</b>    | Hazardous Materials Identification System                            |
| <b>IARC</b>    | International Agency for Research on Cancer                          |
| <b>LD</b>      | Lethal Dose                                                          |
| <b>mg / kg</b> | Milligram per kilogram                                               |
| <b>mm</b>      | Millimeter                                                           |
| <b>MSDS</b>    | Material Safety Data Sheet                                           |
| <b>MSHA</b>    | Mine Safety and Health Administration                                |
| <b>N / A</b>   | Not Applicable                                                       |
| <b>NFPA</b>    | National Fire Protection Association                                 |
| <b>NIOSH</b>   | National Institute for Occupational Safety and Health                |
| <b>NTP</b>     | National Toxicology Program                                          |
| <b>OSHA</b>    | Occupational Safety and Health Administration                        |
| <b>ppm</b>     | Parts per million                                                    |
| <b>SARA</b>    | Superfund Amendment and Reauthorization Act                          |
| <b>STEL</b>    | Short-Term Exposure Limit                                            |

**16. OTHER INFORMATION (Continued)**

**Table of Abbreviations (Continued)**

|              |                                                  |
|--------------|--------------------------------------------------|
| <b>TSCA</b>  | Toxic Substances Control Act                     |
| <b>TWA</b>   | Time - Weighted Average                          |
| <b>U.N.</b>  | United Nations                                   |
| <b>WHMIS</b> | Workplace Hazardous Materials Information System |
| <b>&gt;</b>  | Greater Than                                     |
| <b>&lt;</b>  | Less Than                                        |

**Creation Date:** 02/08/06  
**Revision Date:** 07/23/07  
**Technical Contact:** Frank Peters  
Senior R&D Chemist  
Duncan Enterprises  
5673 East Shields Avenue  
Fresno, CA 93727  
559-291-4444  
559-291-9444 (Fax)

**Disclaimer**

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.