MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION

Product identifier: **AlbaChem® Dri-Web Pallet Adhesive Spray**
Product Number: 1175
Product use: Aerosol webbing adhesive for screen printing applications.
Manufacturer's name and address: Refer to supplier
Supplier name and address:

ALBATROSS USA INC./EXPERT WORLDWIDE

36-41 36th Street
Long Island City, New York
United States
11106
718-392-6272

5439 San Fernando Road West
Los Angeles, California
United States
90039
818-543-5850

Emergency Telephone #: Chemtrec (Day or Night) 800-424-9300
(For Chemical Emergency: Spill, Leak, Fire, Exposure or Accident)

This MSDS complies with 29CFR 19190.1200 (Hazard Communication Standard) and WHMIS regulations.

IMPORTANT: Read this MSDS before handling and disposing of this product. Pass this information on to employees, customers, and users of this product.

***This product does not comply with V.O.C. regulations in some locations. It is not for sale in the following states: New York, Pennsylvania, Maryland, New Jersey, Delaware, California and Washington D.C. You should check with local air quality districts to determine if it may be used in your area.**

SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

Ingredients	CAS #	% weight	OSHA PEL(ppm)	ACGIH TLV (ppm)	LC_{50} (rat, inh) (ppm/4hr)	LD_{50}(mg/kg) rat, oral	LD_{50}(mg/kg) dermal, rabbit
2-Propanone	67-64-1	5-10	750	500	30,000	5,800	>16,000
Dimethyl ether	115-10-6	40-70	N/Av	*1000 (AIHA)	N/Av	N/Av	N/Av
Hexane	110-54-3	15-40	50	50	38,500	28,700	N/Av

Sara 313 Listed Chemicals	**CAS #**	**% weight**
Hexane	110-54-3	15-40

Chemical Family: Hydrocarbon blend in pressurized aerosol can.

***Note:** The TLV listed above for Dimethyl ether is recommended by the American Industrial Hygiene Association (AIHA).

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Target Organs: Eyes, skin, respiratory system, central nervous system

Signs and symptoms of short-term (acute) exposure:

Inhalation: Breathing vapors or mists may be harmful. Inhalation may cause irritation to the nose, throat, and respiratory system. Symptoms of overexposure may include dizziness, drowsiness, fatigue, nausea, headache and other central nervous system effects. In confined or poorly ventilated areas where the vapour concentration is very high, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue, nausea, vomiting, respiratory collapse and death.

Skin contact: Skin contact may cause irritation. Symptoms may include stinging, a burning sensation, redness and swelling. Symptoms of frostbite may be experienced including numbness, prickling and itching.

Eye contact: Direct eye contact may cause severe irritation and corneal damage. Product may freeze the eye and cause eye damage.

Ingestion: Swallowing may cause irritation to the mouth, throat and stomach. Symptoms may include dizziness, drowsiness, fatigue, nausea, headache and other central nervous system effects.

Effects of long-term (chronic) exposure: Prolonged or repeated skin exposure may cause redness, burning, drying and cracking of the skin (dermatitis). Prolonged overexposure may cause peripheral nervous system damage (extremities).

Other important hazards: CNS depression may result from exposure. Ingestion may cause aspiration of the chemical into the lungs. Aspiration can result in life-threatening lung injury.

SECTION 4 — FIRST AID MEASURES

Inhalation: Immediately remove person to fresh air. If breathing stops, provide rescue breathing. Obtain medical attention immediately.

Skin Contact: Wash skin with mild soap and lukewarm water, while removing contaminated clothing. If irritation persists, obtain medical attention. Launder clothing before re-use.

Eye Contact: Flush eyes with lukewarm water for at least 15 minutes. Obtain medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. This material is a potential aspiration hazard. If person is drowsy or unconscious, place on left side with head down. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Extremely flammable aerosol. This material will ignite or explode when exposed to heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Vapors may be heavier than air and collect in low-lying areas and confined spaces. Vapors can travel to a source of ignition and flash back causing an explosion and fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Product may float and be re-ignited at water's surface.

Flash point (Method): >17.8ºC/0ºF (TCC)
Flame projection data: >45cm / 18 inches
Lower flammable limit (% by volume): 3.4 **Upper flammable limit (% by volume):** 18

Explosion data:

Sensitivity to mechanical impact: No *Sensitivity to static discharge:* Yes

Oxidizing properties: No **Auto-ignition temperature:** N/Av

Suitable extinguishing media: Use dry chemical, carbon dioxide, universal type foam (B – C).

Special fire-fighting procedures/equipment: Firefighters should wear proper protective equipment and respiratory protection as conditions warrant. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment and containers exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

Hazardous combustion products: Carbon monoxide, carbon dioxide and other hydrocarbon fums.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release.

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Dike far ahead of the spill for later recovery or disposal.

Spill response/Cleanup: Eliminate all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Use non-sparking tools. Use water spray to reduce vapors. Contain and absorb with non-combustible absorbent material, then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center (phone: 1-800-424-8002).

Note: The following ingredients, present in this product, are listed by DOT/CERCLA as Hazardous Substances with Reportable Quantities (RQ): 2-Propanone (RQ 5000 lbs.)
Hexane (RQ 5000 lbs.)

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: This material is an extremely flammable, harmful aerosol. Wear protective equipment during handling. Use in a well ventilated area. Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep away from heat, flame, sparks, or ignition sources. Ground all equipment during handling. Use caution when opening cap. Do not puncture or incinerate containers. Stand upwind of all opening and spraying operations. Keep container tightly closed when not in use. Assume empty containers contain residues, which are hazardous.

Storage requirements: Store in a cool, dry, well-ventilated area away from sources of heat, ignition and sunlight. Keep away from incompatibles and flammable materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials: This product is incompatible with strong oxidizing agents, reducing agents and bases.

Special packaging materials: Not available.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use with adequate local exhaust ventilation to meet TLV requirements.

Respiratory protection: Respiratory protection is required if the airborne concentration exceeds the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.

Protective gloves: Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye protection: Safety goggles to prevent direct contact.

Other protective equipment: None normally required. An eyewash station should be available in the immediate area.

Permissible exposure levels: See Section 2.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, color and odor: Clear, amber, volatile liquid aerosol, solvent odor.

Odor threshold: N/Av
pH: N/Av
Boiling point: >37.8ºC/100ºF (estimated)
Specific gravity: 0.65 – 0.75
Melting/freezing point: N/Av
Coefficient of oil/water distribution: N/Av
Vapor pressure (PSIG @ 21ºC/70ºF): 62
Solubility in water (%): Insoluble

Vapor density (Air = 1): N/Av
Volatile organic compounds (VOC's): N/Av
Evaporation rate (nBuAC=1): >1
Percent Volatile by Weight: 85

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under the recommended storage and handling conditions prescribed. May form peroxides and carbon monoxide on prolonged standing in sunlight and air. Hazardous polymerization will not occur.
Conditions to avoid: Static discharge, friction, heat, open flame, other sources of ignition, sunlight and air.
Materials to avoid: Incompatible materials (see Section 7).
Hazardous decomposition products: Carbon monoxide, peroxides.

SECTION 11 — TOXICOLOGICAL INFORMATION

LD_{50}: See Section 2
LC_{50}: See Section 2
Routes of exposure: Skin contact, eye contact, inhalation, and ingestion.
Toxicological data: There is no available data for the product itself, only for the ingredients.
Carcinogenicity: None of the ingredients listed are classified as carcinogenic (IARC).
Teratogenicity, mutagenicity, other reproductive effects: Contains Hexane. Hexane may cause mutations of non-reproductive cells, based on animal evidence.
Sensitization to material: None known.
Synergistic materials: N/Av.
Conditions aggravated by exposure: Pre-existing skin and lung (asthma-like) disorders.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental effects: The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
Important environmental characteristics: N/Av.
Aquatic toxicity: There is no data available on the product itself.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Handle waste according to recommendations in Section 7.
Methods of disposal: Containers should be disposed of in accordance with all applicable federal, provincial, state, and local regulations.

SECTION 14 — TRANSPORTATION INFORMATION

Transportation of Dangerous Goods (TDG) information:
Shipping description: AEROSOLS, Class 2.1, UN1950.
49 CFR information:
Shipping description: Aerosol Flammable, N.O.S., 2.1, UN1950
DOT Hazard Class: Consumer Commodity ORM-D.
International Dangerous Goods information:
IMO: Aerosols, Class 2.1, UN1950.
ICAO/IATA: Aerosols, flammable, Class 2.1, UN1950

SECTION 15 — REGULATORY INFORMATION

WHMIS information: A (Pressurized container), B5 (Flammable aerosol), D2B (Eye irritant, Chronic health effector, Mutagenicity)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

CEPA information: All ingredients are listed in full compliance with the TSCA inventory.

SARA Section 313: See Section 2.

RCRA: For disposal of unused material check with local, state and federal environmental agencies.

HMIS: Health 2; Flammability 4; Reactivity 0

California Proposition 65: This product may contain trace levels of Benzene (CAS #71-43-2) and Formaldehyde (CAS #50-00-0), These chemicals are known to the State of California to cause cancer and reproductive harm.

SECTION 16 — OTHER INFORMATION

Legend: N/Ap - Not Applicable
N/Av - Not Available
OSHA - Occupational Safety and Health Act
Inh - Inhalation
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
DSL - Domestic Substances List
NDSL - Non-Domestic Substances Act
IMO - International Maritime Organization
ICAO - International Civil Aviation Organization
CFR - United States Code of Federal Regulations
IARC - International Agency for Research on Cancer
CEPA - Canadian Environmental Protection Act
DOT - United States Department of Transportation
NIOSH - National Institute for Occupational Safety and Health
ACGIH - American Conference of Governmental Industrial Hygienists
EPA - United States Environmental Protection Agency
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
TDG - Canadian Transportation of Dangerous Goods Act and Regulations

References:
ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2001.
International Agency for Research on Cancer Monographs, Supplement 7, 1988.
Canadian Center for Occupational Health and Safety. CHEMINFO database (2001-3).
Material Safety Data Sheet from manufacturer.

Prepared by: Albatross USA Inc.
Telephone number: 718-392-6272
Preparation date: August 2, 2004
Revision date: August 22, 2006