



MATERIAL SAFETY DATA SHEET

SECTION 1 — IDENTIFICATION

Product identifier: Expert® Hold Tight Adhesive

Product Number: 1077

CAS Number: Mixture See Section 2.

Product Family: Aerosol Adhesive

HMIS: Health 2 Reactivity 0 Flammability 4

NFPA Rating as an Aerosol: Level 3

ALBATROSS USA INC./EXPERT WORLDWIDE

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United States
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718-392-6272

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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 Communications Standard) and WHMIS regulations.

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

SECTION 2 — HAZARDOUS COMPONENTS

COMPONENT NAME(S)	EXPOSURE LIMITS	
	CAS NO.	CONCENTRATION (%)
Heptane	142-82-5	30-35
Acetone	67-64-1	20-25
Propane	74-98-6	20-25
Butane	106-97-8	5-10
Pentane	109-66-0	5-10

SECTION 3 — HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! Extremely Flammable. Contents under pressure. Mist or vapour may irritate the eyes, mucous membranes, and respiratory tract. **ASPIRATION** into the lungs may cause pulmonary edema and chemical pneumonia. Product may be harmful or fatal if inhaled.

Major Route(s) of Entry: Inhalation, Eye contact, Skin contact.

Signs and symptoms of Acute Exposure

EYE CONTACT: Considered as an eye irritant. May cause stinging, watering, swelling, and redness. Vapors may irritate eyes. Slight corneal injury could occur.

SKIN CONTACT: Prolonged or repeated exposure may cause severe skin irritation, even a burn. Repeated contact may cause drying and flaking of skin. May cause allergic skin reaction in susceptible individuals. Chronic symptoms may include dryness, swelling, scaling, blistering, cracking, and severe tissue damage.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in harmful amounts, but this product may be readily absorbed through the skin and produce CNS depression.

INGESTION: ASPIRATION HAZARD. Aspiration of this material into the lungs can cause chemical pneumonitis which can be fatal. Is aspirated, it may be rapidly absorbed through the lungs and result in injury to other body systems. May cause weakness and gastrointestinal tract irritation. May irritate the mucous membranes of the mouth, throat, and esophagus. It can be readily absorbed through the stomach and intestinal tract. Symptoms include a burning sensation of the mouth, and esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness and delirium. Additional central nervous system effects may occur prior to the onset of convulsions, coma and death.

INHALATION: Breathing high concentrations of vapour may cause respiratory irritation, euphoria, excitation, or giddiness, headache, nausea, vomiting, abdominal pain, loss of appetite, fatigue muscular weakness, staggering gait, and CNS depression, (which includes dizziness, drowsiness, disorientation, vertigo, memory loss, visual disturbances, difficulty with breathing, convulsions unconsciousness, paralysis, coma, and even death). Irritation may occur to the mucous membranes of the respiratory tract. A loss of appetite, lassitude, light-headedness, in-coordination, respiratory arrest, convulsions, semi-consciousness may result from extreme exposure.

CHRONIC HEALTH EFFECTS SUMMARY: Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction.

CONDITIONS AGGRAVATED BY EXPOSURE: Personnel with pre-existing central nervous system diseases, neurological conditions, skin disorders, impaired liver or kidney function, or chronic respiratory diseases.

TARGET ORGANS: This substance is toxic to lungs, central nervous system, brain, mucous membranes, skin, eyes, and possibly, the blood, liver, and kidneys.

CARCINOGENIC POTENTIAL: This material does not contain any components at concentrations above 0.1% which are considered to be carcinogenic by OSHA, IARC, or NTP.

OSHA Health Hazard Classification		OSHA Physical Hazard Classification		
Irritant X	Toxic	Combustible	Explosive X	Pyrophoric
Sensitizer	Highly toxic	Flammable X	Oxidizer	Water-Reactive
Corrosive	Carcinogenic	Compressed Gas X	Organic Peroxide	Unstable

SECTION 4 — FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

EYE CONTACT: Flush with large amounts of water, occasionally lifting upper and lower eyelids. Get medical attention.

SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder it before reuse. Should any irritation persist, get medical attention.

INHALATION: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention.

INGESTION: Ingestion is not considered a potential route of exposure as an aerosol but, is swallowed, **do not induce vomiting**. If spontaneous vomiting is about to occur, place victims head between their knees to prevent aspiration. Call a physician or transport to an emergency facility.

SECTION 5 — FIRE FIGHTING MEASURES

NFPA Flammability Classification: LEVEL 1 Aerosol

FLASH POINT: Not Determined **FLAMMABLE LIMITS:** UEL 12.8% **LEL** 1.2%

EXTINGUISHING MEDIUM: AS APPROPRIATE FOR COMBUSTIBLE AREA.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills water spray can be used to disperse and flammable vapors that may become concentrated or form in poorly ventilated areas and to protect personnel attempting to stop the leak.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should wear SCBA's in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground from handling site. Eliminate all sources of ignition. Never use welding or cutting torch on or near this product because even just residue can ignite explosively.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up.

Ventilate area-especially low places where heavy vapors might collect. Extinguish all ignition sources. For small spills/leaks mop, wipe, or soak up on an inorganic material immediately. Remove to vent hood or outside. For large spills/leaks evacuate area, contain spill (dike area), and transfer contained liquid to a DOT approved container for disposal. Keep out of water supply. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personnel protective equipment.

SECTION 7 — ENVIRONMENTAL AND DISPOSAL INFORMATION

Store in tightly sealed containers. Keep away from heat, sparks & open flame. Do not get in eyes, on skin or clothing. Do not breathe vapour, mist or gas. Do not store or transfer to an unmarked container. Do not throw empty containers in trash compactor. Do not store in direct sun. Store containers below 120°F. Read label before using.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Control airborne concentrations below the exposure limits see below. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Lethal concentrations may exist in areas with poor ventilation.

PERSONAL PROTECTIVE EQUIPMENT: Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. Minimum requirements are: SAFETY GLASSES and GLOVES.

RESPIRATORY PROTECTION (SPECIFY TYPE): If workplace exposure limit(s) of product or any component is exceeded (see Section two), a NIOSH approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under

specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

HAND PROTECTION: For brief contact, no precautions should be needed. When prolonged or frequently repeated contact could occur, use protective gloves such as; polyvinyl alcohol or polyethylene.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; OSHA regulations also permit other type of safety glasses (consult your safety equipment supplier).

BODY PROTECTION: To prevent repeated or prolonged skin contact, use protective clothing impervious to this product. Selection of specific items such as gloves, boots, apron, or full body suit will depend on operation.

OCCUPATIONAL EXPOSURE GUIDELINES:

Substance	Applicable Workplace Exposure Levels	
	OSHA PEL	ACGIH
Heptane	400 ppm	400 ppm
Acetone	750 ppm	750 ppm
Propane	1000 ppm	NE
Butane	800 ppm	800 ppm
Pentane	600 ppm	600 ppm

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Amber

ODOR: Petroleum

SPECIFIC GRAVITY: 0.80-0.85 (Water=1)

pH: N/A

VAPOR DENSITY (Air = 1):
Heavier Than

BOILING POINT RANGE: N/D

MELTING POINT/FREEZING POINT: N/D

VAPOR PRESSURE: (mmHg or psig @ 70°F): 50-75 psig

VISCOSITY (cps @ 70°F) 100-200 cps

SOLUBILITY IN WATER % BY WT: Slight

VOLATILE ORGANIC COMPOUNDS (VOCs) Content: ~64%

SECTION 10 — STABILITY AND REACTIVITY

STABILITY: Stable, avoid open flames, welding arcs or other high temperature sources which induce thermal decomposition and direct sunlight.

INCOMPATIBILITY: Avoid contact with strong acids (nitric acid, acetic acid, and sulphuric acid), alkalies, and strong oxidizers such as liquid chlorine, other halogens, hydrogen peroxide, and oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, and carbon monoxide, irritating aldehydes and ketones may form upon burning.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

No toxicological studies have been conducted on this product.

SECTION 12 — ECOLOGICAL INFORMATION

No ecological studies have been conducted on this product.

ECOTOXICITY: If spilled this any water or soil contaminated may be hazardous to human, animal and aquatic life.

ENVIRONMENTAL FATE: The chemicals in this product are potentially toxic to freshwater and salt water ecosystems. They will normally float on water with their lighter components evaporating rapidly. In stagnant or slow-flowing waterways, a hydrocarbon layer can cover a large surface area. As a result this layer might limit or eliminate natural atmospheric oxygen transport into the water. Which with time could lead to a fish kill or an anaerobic environment.

SECTION 13 — DISPOSAL CONSIDERATIONS

Hazard characteristics and regulatory waste stream classification can change with product use. It is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

When disposing of unused contents, the preferred options are to send to licensed reclaimers or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local laws and regulations. Do not dump into sewers, on the ground, or into any body of water.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14 — TRANSPORT INFORMATION

DOT STATUS: This material is regulated by the U.S. Department of Transportation (DOT).

PROPER SHIPPING NAME: (to ship on the ocean):
Aerosols, Flammable (each not exceeding 1L capacity), 2.1 UN1950, LTD. QTY

HAZARD CLASS: 2.1

PACKING GROUPS: UN190

PLACARDS: None Required

EMERGENCY RESPONSE GUIDE NO: 126

SECTION 15 — REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: Listed

311/312 HAZARD CATEGORIES:

Fire Hazard: Yes Pressure Hazard: Yes Reactivity Hazard: Yes Immediate Hazard: No Delayed Hazard: No

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:

CHEMICAL	CAS NUMBER	CONCENTRATION %
None Listed		

FEDERAL EPA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

(CERCLA) requires the notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (rqs) in 40 CFR 302.4.

CHEMICAL	CAS NUMBER	CONCENTRATION % UPPER BOUND	RQs IN #
Acetone	67-64-1	20-25	5000

CALIFORNIA PROPOSITION 65: None listed.

MASSACHUSETTS RIGHT TO KNOW: Yes

Heptane	142-82-5	30-35
Acetone	67-64-1	20-25
Propane	74-98-6	20-25
Butane	106-97-8	5-10
Pentane	109-66-0	5-10

PENNSYLVANIA RIGHT TO KNOW: Yes

Heptane	142-82-5	30-35
Acetone	67-64-1	20-25
Propane	74-98-6	20-25
Butane	106-97-8	5-10
Pentane	109-66-0	5-10

NEW JERSEY RIGHT TO KNOW: Yes

Heptane	142-82-5	30-35
Acetone	67-64-1	20-25
Propane	74-98-6	20-25
Butane	106-97-8	5-10
Pentane	109-66-0	5-10

SECTION 16 — OTHER INFORMATION**ABBREVIATIONS:**

N/A: Not Applicable

N/D: Not Determined

NE: Not Established

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

HMIS: Hazardous Materials Information System NFPA: National Fire Protection Association EPA: US Environmental Protection Agency

NIOSH: National Institute of Occupational Safety and Health

Prepared by: Albatross USA Inc.**Telephone number:** 718-392-6272**Preparation Date:** February 14, 2003**Revision Date:** May 22, 2006**NOTICE:**

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