



MATERIAL SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: **AlbaChem® Super 88 Adhesive**

Product Number: 1088

Date Prepared: September 8, 2009

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.

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<u>ITEM</u>	<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>WT/WT % LESS THAN</u>
01	Isohexane	107-83-5	25.0%
02	Dimethyl Ether	115-10-6	15.0%
03	Acetone	67-64-1	15.0%
04	Cyclohexane	110-82-7	15.0%
05	Isobutane	75-28-5	10.0%
06	Ethane, 1,1-Difluoro	75-37-6	10.0%
07	Propane	74-98-6	10.0%
08	N-Pentane	109-66-0	5.0%

EXPOSURE LIMITS

<u>ITEM</u>	<u>ACGIH</u>		<u>OSHA</u>		<u>COMPANY</u>	
	<u>TLV-TWA</u>	<u>TLV-STEL</u>	<u>PEL-TWA</u>	<u>PEL-CEILING</u>	<u>TLV-TWA</u>	<u>SKIN</u>
01	500 ppm	1000 ppm	N.E.	N.E.	N.E.	No
02	N.E.	N.E.	N.E.	N.E.	1000 ppm	No
03	500 ppm	750 ppm	1000 ppm	N.E.	N.E.	No
04	100 ppm.	N.E.	300 ppm	N.E.	N.E.	No
05	N.E.	N.E.	N.E.	N.E.	1000 ppm	No
06	N.E.	N.E.	N.E.	N.E.	1000 ppm	No

07	2500 ppm	N.E.	1000 ppm	N.E.	N.E.	No
08	600 ppm	N.E.	1000 ppm	N.E.	N.E.	No

(See Section 16 for abbreviation legend)

SECTION 3 — HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Keep from reach of children. Do not puncture, incinerate, or place aerosol product containers in compactors. Containers of this material may be hazardous when emptied since containers retain product residues (vapour, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

EFFECTS OF OVEREXPOSURE – EYE CONTACT: Can cause severe irritation, redness, tearing, blurred vision.

EFFECTS OF OVEREXPOSURE – SKIN CONTACT: Prolonged or repeated contact can cause moderate irritation defatting, dermatitis.

EFFECTS OF OVEREXPOSURE – INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Possible cardiac arrhythmias at high concentration.

EFFECTS OF OVEREXPOSURE – INGESTION: No Information

EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: kidney damage, eye damage, liver damage.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION EYE CONTACT

SECTION 4 — FIRST AID MEASURES

FIRST AID – EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

FIRST AID – SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Get medical attention if irritation persists. Mineral oil, baby oil, makeup remover, mineral spirits, or other similar mild solvent may be used to remove the sticky resin residue left by the adhesive.

FIRST AID – INHALATION: Remove individual to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm and quiet. Get medical attention.

FIRST AID - INGESTION: Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT: -156 F
(Pensky-Martens C.C.)

LOWER EXPLOSIVE LIMIT: 1.0%
UPPER EXPLOSIVE LIMIT: 18.0%

AUTOIGNITION TEMPERATURES: N.D.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and travel along the ground or may be moved

by ventilation and ignited by ignition sources at locations distant from material handling point. For aerosol products – exposure to temperatures over 130 F may cause containers to burst releasing highly flammable gas.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires. Keep fire exposed containers cool with water fog.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition & ventilate area. Persons not properly equipped should be excluded from area. Stop spill at source – prevent spreading. Avoid inhalation of vapors. Avoid skin contact with liquid. Soak up on absorbent material and place into proper container for disposal. Use non-sparking scoops for flammable materials. Clean walking surfaces thoroughly to reduce slipping hazard.

SECTION 7 — HANDLING AND STORAGE

HANDLING: Containers of this material may be hazardous when emptied, since containers retain product residues (vapour, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze or use welding torch on containers. Intentional misuse by deliberately concentrating and inhaling the vapors from this product may be harmful or fatal.

STORAGE: Do not store above 120 F. Do not store in direct sunlight. Keep away from heat sources, open flame, pilot lights, sparks, and other sources of ignition. Do not store above 120 F. Do not store in direct sunlight.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

RESPIRATORY PROTECTION: If work place exposure limits of product or any component is exceeded, use a NIOSH/MSHA approved respirator. Consult your safety equipment supplier for recommendations.

SKIN PROTECTION: Wear impervious gloves if method of use involves skin contact with product. Consult your safety supply vendor for glove recommendations.

EYE PROTECTION: Wear safety glasses at minimum, more extensive protection may be necessary depending on how the product is to be used.

OTHER PROTECTIVE EQUIPMENT: Wear impervious clothing if bodily exposure is anticipated. Consult your safety supply vendor for recommendations.

HYGIENIC PRACTICES: Wash hands before eating or smoking. Smoke in designated areas only. Remove and launder clothing if contaminated.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: -44 - 177 F

ODOR: Mild Solvent

APPEARANCE: White Liquid

SOLUBILITY IN H₂O: Negligible

FREEZE POINT: N.D.

VAPOR PRESSURE: N.D.

VAPOR DENSITY: Is heavier than air

ODOR THRESHOLD: N.D.

EVAPORATION RATE: Is faster than Butyl Acetate

SPECIFIC GRAVITY: 0.7223

pH @ 0.0%: N.A.

VISCOSITY: N.D.

COEFFICIENT OF WATER/OIL DISTRIBUTION: N. D.

(See Section 16 for abbreviation legend)

SECTION 10 — STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, sparks, welding arcs, open flame, pilot lights, static electricity or other source of ignition.

INCOMPATIBILITY: Oxidizing agents, acids, alkali, alkaline earth metals, amines, reducing agents, strong oxidizers, very strong acid, caustic or oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: hydrofluoric acid and possibly carbonyl fluoride. Carbon monoxide and carbon dioxide, various hydrocarbons, sulfur dioxide, sulfur monoxide.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 — TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 — ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information.

SECTION 13 — DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

SECTION 14 — TRANSPORTATION INFORMATION

GROUND TRANSPORTATION: (Continental United States, Canada & Mexico): Consumer Commodity ORM-D

OCEAN: UN 1950 Class 2.1 Flammable Gas, Limited Quantity

AIR: We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a hazardous material shipping company.

SECTION 15 — REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA TITLE III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD FIRE HAZARD PRESSURIZED GAS HAZARD

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

-----CHEMICAL NAME-----	CAS NUMBER	WT/WT % IS LESS THAN
CYCLOHEXANE	110-82-7	15.0%

TOXIC SUBSTANCES CONTROL ACT: This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

-----CHEMICAL NAME-----	CAS NUMBER
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No information is available.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

TSCA INVENTORY: All components of this product are on the US TSCA inventory. On June 30, 1993 the OSHA Z-1-A table was revoked and OSHA reverted back to their prior exposure limits. The values on this MSDS reflect the roll back to the prior values. Some states may continue to enforce the 1993 limits. On June 16, 1995 EPA announced in a final rule that acetone would no longer be considered a VOC for air attainment standards (it is now an exempt compound). The VOC calculations on this MSDS are based on acetone being an exempt compound. The June 16 rule also removed acetone from the list of SARA 313 reportable chemicals.

SECTION 16 — OTHER INFORMATION

HMIS RATING: HEALTH - 2 FLAMMABILITY - 4 REACTIVITY - 1

VOLATILE BY WEIGHT: 82.8% **VOLATILE BY VOLUME:** 87.7%

VOC CONTENT: 63.7% BY WEIGHT, 459 GRAMS/LITER TOTAL PRODUCT,
551 GRAMS/LITER LESS WATER AND EXEMPT, 0.53 LBS/CAN

LEGEND: N.A. - Not Applicable, N.E. - Not Established N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. The environmental information and hazardous materials identification system have been included by Albatross USA, Inc. in order to provide additional health and hazard classification information. The ratings recommend are based upon the criteria supplied by the developers of these rating systems, together with Albatross USA, Inc.'s interpretation of the available data. Proper personal protective equipment varies widely with

conditions of use and anticipated exposure. We recommend that a supervisor or other qualified person determine proper PPE for intended use.