ADHESIVES & CHEMICALS

MATERIAL SAFETY DATA SHEET
Updated: 11/10/11

PRODUCT NAME: 512

SECTION I: MATERIAL IDENTIFICATION:

IDENTITY: NON-FLAMMABLE ADHESIVE

MANUFACTURER:

ADHESIVES & CHEMICALS
131 BROWN ST
YATESVILLE PA 18640

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SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

Hazardous Components	CAS#	%	TLV (units)
METHYLENE CHLORIDE*	75-09-2	80	25 PPM ACGIH 25 PPM OSHA

SUBJECT TO REPORTING OF SARA SECTION 313

SECTION III: HAZARDS IDENTIFICATION

Emergency Overview

WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, CARDIOVASCULAR SYSTEM, AND BLOOD. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. Risk of Cancer depends on level and duration of exposure.

Potential Health Effects

Inhalation:

Causes irritation to respiratory tract. Has a strong narcotic effect with symptoms of mental confusion, light-headedness, fatigue, nausea, vomiting and headache. Causes information of carbon monoxide in blood, which Affects cardiovascular system and central nervous system. Continues exposure may cause increased light-headedness, staggering, unconsciousness, and even death. Exposure may make the symptoms of angina (chest pains) worse.

Ingestion:

May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through gastrointestinal tract may produce symptoms of central nervous system, depression, ranging from light-headedness to unconsciousness.

Skin Contact:

Causes irritation, redness and pain. Prolonged contact can cause burns. Liquid degreases the skin. May be absorbed through the skin.

Eye Contact:

Vapors can cause eye irritation. Contact can produce pain, inflammation and temporal eye damage.

Chronic Exposure:

Can cause headache, mental confusion, depression, liver effects, kidney effects, bronchitis, and loss of appetite nausea, lack of balance, and visual disturbances. Can cause dermatitis upon prolonged skin contact.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, respiratory or cardiovascular function may be more susceptible to the effects of this substance.

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4. **First Aid Measures**

Inhalation:
Remove to fresh air. If not breathing, give artificial respirations. If breathing is difficult, give, oxygen. Get medical attention.

Ingestion:
If swallowed, NO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:
Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately

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5. **Fire Fighting Measures**

Fire:
Auto ignition temperature: 556c (1033f)
Flammable limits in air % by volume:
Lel: 12; uel: 23

Forms flammable vapor-air mixtures above 100C (212F)

Explosion:
Concentrated can be ignited by a high intensity ignition source. Vapor may form flammable mixture in Atmosphere that contains a high percentage of oxygen. Sealed containers may rupture when heated.

Fire Extinguishing Media:
Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire-exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters clothing provides only limited protection to the combustion products of this material.

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6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Use non-sparking tools and equipment. Do not use

combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Outside or detached storage is recommended. Containers of this material may be hazardous when empty since they retain product residues (vapor, liquid); observe all warnings and precautions listed for the product. To minimize decomposition, all storage containers should be galvanized. This material may corrode plastic and rubber. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and don not eat, drink, or smoke in workplace. Odor Threshold: 205-307 ppm. The odor threshold only serves as a warning of exposure; not smelling it does not mean you are not being exposed.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Methylene Chloride (Dichloromethane):-OSHA Permissible Exposure Limit (PEL)- 25 ppm (TWA), 125 ppm (STEL), 12.5 ppm (8 hour TWA- Action Level)

-ACGIH Threshold Limit Value (TLV)-

50 ppm (TWA), A2-suspected human carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne. Exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at is source, preventing dispersion of it in to the general work area. Please refer to the **Industrial Ventilation, A Manual of Recommended Practices**, most recent edition, for details.

Personal Respirators:

If the exposure limit is exceeded, wear a supplied air, full-face piece respirator, air lined hood, or full-face piece self-contained breathing apparatus. The cartridges recommended for this material have a predicted service of less than 30 minutes at concentrations of ten times (10X) the exposure limits. Actual service life will vary considerably, depending on concentration levels, temperature, humidity, and work rate. This substance has poor warning properties.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene is a recommended material for personal protective equipment. Natural rubber and polyvinyl chloride ARE NOT recommended materials for personal protective equipment.

Eye Protection:

Use chemical safety goggles and /or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities work area.

Other Control Measures:

Do not use closed circuit rebreathing system employing soda lime or other carbon dioxide absorber because of formation of toxic compounds capable of producing cranial nerve paralysis. See OSHA Standard for medical surveillance, record keeping, and reporting requirements for methylene chloride (29CFR 1910,1052).

9. Physical and Chemical Properties

Appearance:	Amber color
Odor:	Chloroform-like odor>
Solubility:	1.32gm/100 gm water @ 20C
Specific Gravity:	1.33 @15C/4C
pH:	No information found.
% Volatiles by volume @ 21C (70F)	80
Boiling Point:	39.8C (104F)
Melting Point:	-97C (-143F)
Vapor Density (Air=1):	2.9
Vapor Pressure (mm Hg):	350 @ 20C (68F)
Evaporation Rate (BuAc=1):	27.5

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10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Emits highly toxic fumes or phosgene when heated to decomposition. Decomposes in a flame or hot surface to form toxic gas phosgene and corrosive mists of hydrochloric acid. Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur

Incompatibilities:

Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attack some forms of plastics, rubber, and coatings.

Conditions to Avoid:
Moisture, heat, flames, ignition sources and incompatibles.

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11. Toxicological Information

Toxicological Data:
Dichloromethane: Oral rat LD50: 1600 mg/kg; inhalation rat LC50: 52 g/m3: investigated as a tumorigen, mutagen, reproductive effectors.

Reproductive Toxicity:
Dichloromethane has been linked to spontaneous abortions in humans.

----------\Cancer lists\----------

	---NTP Carcinogen---		
Ingredient	Known	Anticipated	IARC Category
Methylene Chloride (75-09-2)	No	Yes	2B

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12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulation. When released into the air, this material may be moderately degraded by reaction with photo chemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of greater than 30 days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:
The LC50/96- hour values for fish are over 100mg/l. This material is not expected to be toxic to aquatic life.

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13. Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in a accordance with federal, state and local requirements.

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14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name:	DICHLOROMETHANE
Hazard Class:	6.1
UN/NA:	UN2810
Packing Group:	III
Label:	Keep away from food

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15. Regulatory Information

---------Chemical Inventory Status-Part1----------

Ingredient	TSCA	EC	Japan	Australia
Methylene Chloride (75-09-2)	Yes	Yes	Yes	Yes

---------Chemical Inventory Status-Part 2----------

		--Canada------		
Ingredient	Korea	DSL	NDSL	Phil.
Methylene Chloride (75-09-2)	Yes	Yes	No	Yes

----------\Federal,State & International Regulations-Part1\----------

	-SARA 302-		----SARA 313----------	
Ingredient	RQ	TPQ	List	Chemical Catg.
Methylene Chloride (75-09-2)	No	No	Yes	No

----------Federal, State & International Regulations-Part 2----------

		--RCRA--	-TSCA-
Ingredient	CERCLA	261.33	8(d)
Methylene Chloride (75-09-02)	1000	UO80	No

Chemical Weapons Convention: No
TSCA 12(b): No
CDTA: No
SARA 311/312: Acute: Yes
Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure/Liquid)

Warning:
This product contains a chemical(s) known to the state of California to cause cancer.

16. Other Information

NEPA Ratings: Health: **2** Flammability: **1** Reactivity: **0**
Label hazard Warning:

WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, CARDIOVASCULAR SYSTEM, AND BLOOD. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT, SUSPECT CANCER HAZARD. MAY CAUSE CANCER.
Risk of cancer depends on level and duration of exposure.

Label Precautions:
Do not breathe vapor.
Keep container closed
Use only with adequate ventilation
Wash thoroughly after handling
Keep away from heat and flame
Do not get in eyes, on skin, or on clothing.

Label First Aid:
If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Revision Information: MSDS Section(s) changed since last revisions of document include: 1,2.

SPECIAL COMMENT REGARDING ALL MATERIAL MANUFACTURED

NOT RECOMMENDED FOR OUTDOOR USE

BECAUSE WE HAVE NO CONTROL OVER THE MANNER IN WHICH THIS PRODUCT MAY BE USED, WE CANNOT GUARANTEE THE END RESULTS TO BE OBTAINED IN OUR CUSTOMERS' PROCESSES. ADHESIVES AND CHEMICALS, INC SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE, OR INJURY, WHETHER ORDINARY, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING FROM THE PURCHASE, POSSESSION, HANDLING, USE, OR INABILITY TO USE THIS MATERIAL.