

# MATERIAL SAFETY DATA SHEET

Weaver Adhesive 2001

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Weaver Adhesive 2001  
**Product Number:** A2990  
**Product Use:** Adhesive.  
**Manufacturer/Supplier:** Apollo Chemicals Ltd  
Sandy Way  
Amington Industrial Estate  
Tamworth  
B77 4DS, UK  
**Phone Number:** + 44 (0) 1827 54281  
**Fax Number:** + 44 (0) 1827 53030  
**Emergency Phone:** + 44 (0) 1827 69662  
**Date of Preparation:** November 16, 2011

## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

DANGER

FLAMMABLE. HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation and a feeling of tightness in the chest.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Vapours may cause drowsiness and dizziness.

**Medical Conditions Aggravated By Exposure:** Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Toluene	108-88-3	10 - 30
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - 30
1,3-Butadiene, 2-chloro-	126-99-8	10 - 30
Acetone	67-64-1	10 - 30
Methyl ethyl ketone	78-93-3	10 - 30
Petroleum resins	64742-16-1	1 - 5

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## Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**Inhalation:** Remove to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Have victim rinse mouth thoroughly with water. If conscious and alert, have victim drink plenty of water. Never give anything by mouth to an unconscious person. Seek medical attention or call poison control.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

**Flammability:** Flammable by WHMIS criteria.

**Means of Extinction:**

**Suitable Extinguishing Media:** Powder, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Water spray may be ineffective on fire but may protect firefighters and cool closed containers.

**Products of Combustion:** May include, and are not limited to: oxides of carbon, noxious fumes.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Prevent the accumulation of electrostatic charge.

**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

**Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Scoop up material and place in a disposal container. Provide ventilation.

**Other Information:** Not available.

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## Section 7: HANDLING AND STORAGE

### Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### Storage:

Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store in a cool place, away from incompatibles.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Ingredient	Exposure Limits ACGIH-TLV
Toluene	20 ppm
Naphtha (petroleum), hydrotreated light	Not available.
1,3-Butadiene, 2-chloro-	10 ppm
Acetone	500 ppm
Methyl ethyl ketone	200 ppm
Petroleum resins	Not available.

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### Personal Protective Equipment:

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Impervious protective gloves are recommended.

**Skin and Body Protection:** Impervious protective clothing recommended.

**Respiratory Protection:** A NIOSH approved organic vapor respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. A self-contained breathing apparatus (SCBA) may be required for unknown vapour concentrations.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Viscous.
<b>Colour:</b>	Cream.
<b>Odour:</b>	Characteristic.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	Not available.
<b>Viscosity:</b>	1848 cSt @ 40 °C (104 °F)
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	~ 56 °C (133 °F)
<b>Flash Point:</b>	~ -35 °C (-31 °F)

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<b>Evaporation Rate:</b>	Fast.
<b>Lower Flammability Limit:</b>	0.9
<b>Upper Flammability Limit:</b>	8
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Specific Gravity:</b>	0.85
<b>Solubility in Water:</b>	Insoluble.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	~ 200 °C (392 °F)
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions. Keep in a cool place.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Strong oxidizers. Strong acids.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon, noxious fumes.

**Possibility of Hazardous Reactions:** In use, may form flammable/explosive vapour-air mixture.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Toluene	636 mg/kg, rat	12.5 mg/L 4hr, rat; 26700 ppm 1hr, rat
Naphtha (petroleum), hydrotreated light	> 5000 mg/kg, rat	73680 ppm 4hr, rat
1,3-Butadiene, 2-chloro-	450 mg/kg, rat	11.8 mg/L 4 hr, rat
Acetone	5800 mg/kg, rat	Not available.
Methyl ethyl ketone	2737 mg/kg, rat	23500 mg/m <sup>3</sup> 8hr, rat
Petroleum resins	Not available.	Not available.

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation and a feeling of tightness in the chest. Vapours may cause drowsiness and dizziness.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS criteria.

**Carcinogenicity:** Hazardous by WHMIS criteria.

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## Ingredient

## Chemical Listed as Carcinogen or Potential Carcinogen \*

Toluene  
Naphtha (petroleum), hydrotreated light  
1,3-Butadiene, 2-chloro-  
Acetone  
Methyl ethyl ketone  
Petroleum resins

G-A4, I-3, CP65  
Not listed.  
I-2B, N-2, CP65  
G-A4  
Not listed.  
Not listed.

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by WHMIS criteria.

**Reproductive Effects:** Not hazardous by WHMIS criteria.

### Developmental Effects:

**Teratogenicity:** Hazardous by WHMIS criteria.

**Embryotoxicity:** Hazardous by WHMIS criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS criteria.

**Skin Sensitization:** Not hazardous by WHMIS criteria.

**Toxicologically Synergistic Materials:** Not available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Volatile.

## Section 13: DISPOSAL CONSIDERATIONS

### Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

### TDG Classification

UN1133; ADHESIVES containing flammable liquid; Class 3; PG II  
Limited Quantity ( $\leq 5L$ )

## Section 15: REGULATORY INFORMATION

### Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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## Global Inventories

### Ingredient

### Canada DSL/NDSL

Toluene	DSL
Naphtha (petroleum), hydrotreated light	DSL
1,3-Butadiene, 2-chloro-	DSL
Acetone	DSL
Methyl ethyl ketone	DSL
Petroleum resins	DSL

## HMIS - Hazardous Materials Identification System

Health - 2\*      Flammability - 3      Physical Hazard - 1      PPE - B

## NFPA - National Fire Protection Association:

Health - 2      Fire - 3      Reactivity - 1

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## WHMIS Classification(s):

- Class B2 - Flammable Liquid
- Class D2A - Carcinogenicity
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2B - Skin/Eye Irritant
- Class F - Dangerously Reactive Material

## WHMIS Hazard Symbols:



## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

**OSHA (O)** Occupational Safety and Health Administration.

**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

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## Section 16: OTHER INFORMATION

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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