

**1 . Product and company identification**

**Trade name** : Multi-Purpose Adhesive  
**Distributor Mailing Address** : IBS, Inc.  
P.O. Box 1717  
Auburn, Wa 98071-1717  
800-678-1906  
**Material uses** : Consumer products: Adhesive  
**Distributors Location** : IBS, Inc.  
740 Clay St NW  
Auburn, WA 98001  
253-804-8666  
**IBS No.** : 74510 3.7 oz tube; 74511 10.2 oz. cartridge  
**Validation date** : **6/14/2007**  
**Print date** : 6/14/2007  
**Responsible name** : **Regulatory Compliance**  
**In case of emergency** : CALL Chem-Tel  
1(800) 255-3924  
For product inquiry call IBS, Inc. 1(800) 678-1906

**2 . Hazards identification**

**Physical state** : Liquid.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview** : **WARNING !**  
**CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.**  
Irritating to eyes, respiratory system and skin. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

**Routes of entry** : Dermal contact. Eye contact. Inhalation.

**Potential acute health effects**

**Inhalation** : Irritating to respiratory system.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : Irritating to skin.  
**Eyes** : Irritating to eyes.

**Potential chronic health effects**

**Chronic effects** : Contains material that can cause target organ damage.  
**Carcinogenicity** : Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.  
**Target organs** : Contains material which causes damage to the following organs: kidneys, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

## 2 . Hazards identification

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

## 3 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Tetrachloroethylene	127-18-4	60-100

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 . First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5 . Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
  - Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
halogenated compounds  
carbonyl halides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

### Product name

Tetrachloroethylene

### Exposure limits

**ACGIH TLV (United States, 1/2006).** Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Substances for which there is a Biological Exposure Index or Indices Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL. Refers to Appendix A -- Carcinogens.

STEL: 685 mg/m<sup>3</sup> 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 170 mg/m<sup>3</sup> 8 hour(s).

TWA: 25 ppm 8 hour(s).

**OSHA PEL 1989 (United States, 3/1989).** Notes: See Table Z-2.

TWA: 170 mg/m<sup>3</sup> 8 hour(s).

TWA: 25 ppm 8 hour(s).

**OSHA PEL Z2 (United States, 11/2006).**

AMP: 300 ppm 5 minute(s).

CEIL: 200 ppm

TWA: 100 ppm 8 hour(s).

### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

#### Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

#### Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

### Physical state

: Liquid.

### Flash point

: Not available.

### Color

: Multiple

### Odor

: Not available.

### Boiling/condensation point

: 121.11°C (250°F)

### Specific gravity

: 1.3 to 1.42

## 9 . Physical and chemical properties

<b>Vapor pressure</b>	: 1.7 kPa (13 mm Hg)
<b>Estimated Vapor Density</b>	: >1 [Air = 1]
<b>VOC %</b>	: 0.440669%
	To convert % VOC to lbs/gal use the following equation: Specific Gravity*8.33*VOC%=VOC lbs/gal
<b>Evaporation rate</b>	: <1 (Water = 1)

## 10 . Stability and reactivity

<b>Stability</b>	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	: Avoid exposure - obtain special instructions before use.
<b>Materials to avoid</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Hazardous polymerization</b>	: Will not occur.
<b>Conditions of reactivity</b>	: Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

## 11 . Toxicological information

### Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
Tetrachloroethylene	LD Dermal	Rabbit	>3228 mg/kg	-
	LD50	Rat	4678 mg/kg	-
	Intraperitoneal			
	LD50 Oral	Rat	2629 mg/kg	-
	LD50 Unreported	Rat	4000 mg/kg	-
	LDLo	Rat	450 mg/kg	-
	Intratracheal			
	TDLo Oral	Rat	50 mg/kg	-

### Carcinogenicity

#### Classification

<b>Product/ingredient name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>EPA</b>	<b>NIOSH</b>	<b>NTP</b>	<b>OSHA</b>
Tetrachloroethylene	A3	2A	-	+	Possible	-

**IDLH** : Not available.

**Synergistic products** : Not available.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

<b>Product/ingredient name</b>	<b>Test</b>	<b>Result</b>	<b>Species</b>	<b>Exposure</b>
Tetrachloroethylene	Intoxication	Acute EC50 14.4 mg/L	Fish	48 hours
	Intoxication	Acute EC50 8.5 mg/L	Daphnia	48 hours
	Intoxication	Acute EC50 7.5 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 5.78 mg/L	Fish	96 hours
	Mortality	Acute LC50 4.99 mg/L	Fish	96 hours
	Mortality	Acute LC50 4.82 mg/L	Fish	96 hours

**Conclusion/Summary** : Not available.

### Biodegradability

## 12 . Ecological information

**Conclusion/Summary** : Not available.




## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.


Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	1897	Tetrachloroethylene mixture. Marine pollutant (Tetrachloroethylene)	6.1	III		<p><b>Marine pollutant</b> Marine pollutant (P)</p> <p><b>Limited quantity</b> Yes.</p> <p><b>Packaging instruction</b> <b>Passenger aircraft</b> Quantity limitation: 60 L</p> <p><b>Cargo aircraft</b> Quantity limitation: 220</p> <p><b>Special provisions</b> &lt; 1 gal Consumer commodity ORM-D</p>
<b>TDG Classification</b>	1897	Tetrachloroethylene mixture. Marine pollutant	6.1	III		<p><b>Marine pollutant</b> Marine pollutant (P)</p> <p><b>Explosive Limit and Limited Quantity Index</b> 5</p> <p><b>Passenger Carrying Ship Index</b> 60</p>
<b>IMDG Class</b>	1897	Tetrachloroethylene mixture. Marine pollutant (Tetrachloroethylene)	6.1	III		<p><b>Emergency schedules (EmS)</b> F-A, S-A</p> <p><b>Marine pollutant</b> Marine pollutant (P)</p>

## 14 . Transport information

<b>IATA-DGR Class</b>	1897	Tetrachloroethylene mixture	6.1	III		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 60 L <b>Cargo Aircraft Only</b> Quantity limitation: 220 L <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 2 L
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PG\* : Packing group

## 15 . Regulatory information

**United States inventory (TSCA 8b):** All components are listed or exempted.  
 SARA 311/312 - Acute, Chronic

### SARA 313

<b>Form R - Reporting requirements</b>	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
	Tetrachloroethylene	127-18-4	60-100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

<b>Ingredient name</b>	<b>Cancer</b>	<b>Reproductive</b>
Tetrachloroethylene	Yes.	No.

### Canada

- WHMIS (Canada)** : Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
 Class D-2A: Material causing other toxic effects (Very toxic).
- Canadian lists** : **CEPA Toxic substances:** The following components are listed: Tetrachloroethylene  
**Canadian NPRI:** The following components are listed: Tetrachloroethylene
- Canada inventory** : **Canada inventory:** All components are listed or exempted.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

### Mexico

**Classification** :



### EU regulations

**Hazard symbol or symbols** :



- Risk phrases** : R40- Limited evidence of a carcinogenic effect.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 15 . Regulatory information

**Safety phrases** : S2- Keep out of the reach of children.  
S29- Do not empty into drains.  
S36/37- Wear suitable protective clothing and gloves.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

### International regulations

**International lists** : **Australia inventory (AICS)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Korea inventory (KECI)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.  
**Japan inventory (ENCS)**: Not determined.

## 16 . Other information

**Label requirements** : CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

**Hazardous Material Information System (U.S.A.)** :

Health	*	3
Flammability		0
Physical hazards		1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



**Date of printing** : 6/14/2007.  
**Date of issue** : 6/14/2007.  
**Date of previous issue** : No previous validation.  
**Version** : 1

☑ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.