

**#247****SECTION 1. IDENTIFICATION**

**Product Identifier** #247 (742876)  
**Other Means of Identification** Ear Tip Cement  
**Product Family** Adhesives  
**Manufacturer/Supplier Identifier** Warner Tech-care Products, LLC - 3796 Dunlap Street N, Arden Hills, MN 55112  
www.warnertechcare.com  
**Emergency Phone No.** 1-800-328-4757

**SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

**Classification**

Flammable liquid - Category 2; Acute toxicity (Oral) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2

**Label Elements**

Signal Word:

Danger

Hazard Statement(s):

Highly flammable liquid and vapour.

Harmful if swallowed, in contact with skin or if inhaled.

Causes skin and eye irritation.

Precautionary Statement(s):

Prevention:

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Wash hands and skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/eye protection/face protection.

Response:

IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Rinse mouth.

If eye irritation persists: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder to extinguish.

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Tetrahydrofuran	109-99-9	<100		

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel unwell.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Call a Poison Centre or doctor if you feel unwell.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

##### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

#### Specific Hazards Arising from the Product

Highly flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Distant ignition and flashback are possible.

#### Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

#### Methods and Materials for Containment and Cleaning Up

Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Contaminated absorbent poses the same hazard as the spilled product. Review Section 13 (Disposal Considerations) of this safety data sheet.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Prevent skin contact. Do not get in eyes, on skin or on clothing. Do not swallow. Only use where there is adequate ventilation. Avoid generating vapours or mists. Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Electrically bond and ground equipment. Ground clips must contact bare metal. Use non-sparking tools.

### Conditions for Safe Storage

Store in an area that is: cool, dry, ventilated, out of direct sunlight and away from heat and ignition sources.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Tetrahydrofuran	50 ppm	100 ppm	200 ppm			

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear colourless viscous liquid.
Odour	Not available
Odour Threshold	7.3 - 10.2 mg/m <sup>3</sup> (detection)
Melting Point/Freezing Point	-108.5 °C (-163.3 °F) (Tetrahydrofuran) (melting)
Initial Boiling Point/Range	66 °C (151 °F) (Tetrahydrofuran)
Flash Point	-17 °C (1 °F) (Tetrahydrofuran)
Evaporation Rate	8 (n-butyl acetate = 1)
Upper/Lower Flammability or Explosive Limit	11.8% (upper); 1.8% (lower)
Vapour Pressure	131.3 mm Hg (17.5 kPa) at 20 °C (Tetrahydrofuran)
Vapour Density (air = 1)	2.49
Relative Density (water = 1)	0.926
Solubility	Not available in water
Decomposition Temperature	Not available
Other Information	
Physical State	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Stable if inhibited.

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**Conditions to Avoid**

High temperatures. Open flames, sparks, static discharge, heat and other ignition sources. Light.

**Incompatible Materials**

Oxidizing agents (e.g. peroxides), oxygen, halogens (e.g. chlorine), strong bases (e.g. sodium hydroxide).

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Tetrahydrofuran	54 mg/L (rat) (4-hour exposure)	2050-2850 mg/kg (rat)	> 2000 mg/kg (rat)

**Skin Corrosion/Irritation**

Human experience and animal tests show no or very mild irritation.

**Serious Eye Damage/Irritation**

Animal tests show serious eye irritation. Animal tests show serious eye damage.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

At high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.

**Skin Absorption**

Not harmful based on animal tests.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Tetrahydrofuran	Not Listed	A3	Not Listed	Not Listed

**Reproductive Toxicity****Development of Offspring**

Not known to harm the unborn child.

**Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

**Germ Cell Mutagenicity**

Not known to be a mutagen.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Tetrahydrofuran	2160 mg/L (Pimephales promelas (fathead minnow); 96-hour)			

**Persistence and Degradability**

Does not degrade rapidly based on quantitative tests.

**Bioaccumulative Potential**

This product and its degradation products are not expected to bioaccumulate based on the fish bioconcentration factor (BCF).

**Mobility in Soil**

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If released into the environment, this product can move rapidly through the soil.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
	1133	Adhesives, Flammable	3	II

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

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