

# MATERIAL SAFETY DATA SHEET

T-91SB

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** Tarr, Inc.  
4115 W. Turney Avenue  
Phoenix, AZ 85019  
**INFORMATION PHONE:** (602) 233-2000  
**EMERGENCY PHONE:** CHEMTREC 800-424-9300 (US) Day or night  
International Call Collect CHEMTREC 202-483-7616  
**PRODUCT NAME:** T-91SB  
**PRODUCT NUMBER:** 3090  
**UPC NUMBER:**  
**PREPARED BY:** Patricia Rodabaugh  
**DATE PREPARED:** 11/30/1999  
**LAST REVISION:** 9/11/1998  
**SYNONYMS:**



Portland, Oregon  
Phoenix, Arizona  
Auburn, Washington  
Vancouver, Washington

**Print Date:** 11/24/2004

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name          | CAS #     | Weight % | OSHA PEL | ACGIH TLV | NOTE |
|------------------------|-----------|----------|----------|-----------|------|
| 1-Methoxy-2-Propanol   | 107-98-2  | 75-78    | 100 ppm  | 100 ppm   |      |
| 2-methoxy-1-propanol   | 1589-47-5 | 0-3      |          |           |      |
| Methyl isobutyl ketone | 108-10-1  | 20-24    | 50 ppm   | 50 ppm    |      |

## 3. HAZARDOUS IDENTIFICATION

**EMERGENCY OVERVIEW:** WARNING! Flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness.

**INHALATION:** Vapors may be irritating to the upper respiratory tract. High vapor concentrations may cause central nervous system (CNS) depression.

**INGESTION:** Liquid is moderately toxic and may be harmful if swallowed; may produce CNS depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspir. pneumontis.

**SKIN CONTACT:** Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

### SIGNS AND SYMPTOMS OF EXPOSURE:

Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, and nausea.

## 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if systems persist.

**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

**INGESTION:** Call a physician or poison control center immediately. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

**AGGRAVATED MEDICAL CONDITIONS:**

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product.

**SUPPLEMENTAL HEALTH INFORMATION:**

1-Methoxy-2-Propanol: Inhalation LC-50 (rat): >10,000 ppm/4 hour(s), Dermal LD-50 (rabbit): 13,000 - 14,000 mg/kg., skin irritation (rabbit): slight, eye irritation (rabbit): slight.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**FLASH POINT:** 86 F

**FLASH POINT METHOD USED:** Tag Closed Cup

**AUTOIGNITION:** 530 F

**LEL:** 0.014 **UEL:** 0.138

**EXTINGUISHING MEDIA:**

Use water spray, dry chemical, carbon dioxide (CO2), or alcohol foam.

**SPECIAL FIRE FIGHTING PROCEDURES:**

The use of SCBA is recommended for firefighters. Water spray may be used to cool containers exposed to heat or flame. Water may be ineffective in fighting the fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Flammable. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Forms peroxides of unknown stability.

**COMBUSTION PRODUCTS:**

Carbon monoxide and carbon dioxide may be formed during combustion.

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep away from heat, sparks, and flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Keep from contact with oxidizing materials. Keep container closed. Store away from heat and light.

**OTHER PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**

If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**VENTILATION:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**PROTECTIVE GLOVES:**

It is a good industrial hygiene practice to minimize skin contact.

**EYE PROTECTION:**

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

Wear gloves and protective clothing which are impervious to this product for the duration of anticipated exposure, if there is potential for skin contact.

**WORK / HYGENIC PRACTICES:**

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

**ENGINEERING CONTROLS:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**EXPOSURE GUIDELINES:**

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**SOLUBILITY IN WATER:** soluble

**APPEARANCE AND ODOR:** Clear, colorless liquid with ether odor.

|                           |                      |                          |                  |
|---------------------------|----------------------|--------------------------|------------------|
| <b>BOILING POINT:</b>     | 241 F                | <b>PERCENT VOLATILE:</b> | 100              |
| <b>VAPOR PRESSURE:</b>    | 8 - 14.5 mmHg @ 20 C | <b>PH:</b>               | N/A              |
| <b>EVAPORATION RATE:</b>  | Slower than ether    | <b>MOLECULAR WEIGHT:</b> |                  |
| <b>POUNDS PER GALLON:</b> | 7.16                 | <b>VAPOR DENSITY:</b>    | Heavier than air |
| <b>SPECIFIC GRAVITY:</b>  | 0.85                 | <b>OTHER PROPERTIES:</b> |                  |
| <b>MELTING POINT:</b>     | -143 F               |                          |                  |
| <b>FREEZING POINT:</b>    | NDA                  |                          |                  |

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Forms peroxides of unknown stability. Avoid strong alkalies and oxidizing agents.

**INCOMPATIBILITY:**

Strong oxidizers.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:**

Carbon monoxide and carbon dioxide may be formed during combustion.

**HAZARDOUS POLYMERIZATION:** Will Not Occur

**CONDITIONS TO AVOID:** Avoid heat, flame, and other sources of ignition.

**11. TOXICOLOGY INFORMATION**

Not listed as a carcinogenicity classification (components present at 0.1% or more): IARC: not listed, ACGIH: not listed, NTP: not listed,

OSHA: not listed.

## 12. ECOLOGICAL INFORMATION

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

## 13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

## 14. TRANSPORTATION INFORMATION

|                                  |                                                                          |                       |                  |
|----------------------------------|--------------------------------------------------------------------------|-----------------------|------------------|
| <b>DOT Proper Shipping Name:</b> | Flammable liquids, n.o.s. (1-Methoxy-2-Propanol, Methyl Isobutyl Ketone) | <b>PACKING GROUP:</b> | II               |
|                                  |                                                                          | <b>GUIDE NUMBER:</b>  | 128              |
| <b>HAZARD CLASS:</b>             | 3                                                                        | <b>DOT CLASS:</b>     | Flammable liquid |
| <b>UN NUMBER:</b>                | UN 1993                                                                  |                       |                  |

## 15. REGULATORY INFORMATION

This product is listed on the EPA/TSCA inventory of chemical substances. Per 40 CFR part 82, this product does not contain nor was it directly manufactured with any class I or class II ozone depleting substance.

## 16. OTHER INFORMATION

**HMIS INFORMATION:**    **HEALTH:** 1    **FLAMMABILITY:** 3    **REACTIVITY:** 0    **PROTECTIVE:** G

### SARA Title III Information:

|                      |                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SARA 302:</b>     | To the best of our knowledge, none of the chemicals in this product are listed as an Extremely Hazardous Substance under Section 302 of SARA Title III nor does this product contain any other such substances. |
| <b>SARA 311/312:</b> | This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.                                                                                      |
| <b>SARA 313:</b>     | Methyl Isobutyl Ketone                                                                                                                                                                                          |

**N/A = Not Applicable**

**NDA = No Data Available**

### Disclaimer

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