



chemists helping chemists in research & industry

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DATE: 07/27/93  
CUST#: 938609  
PO#: P0074850

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

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### IDENTIFICATION

PRODUCT #: C80687  
CAS #: 14371-10-9  
MF: C9H8O

NAME: TRANS-CINNAMALDEHYDE, 99%

### SYNONYMS

(E)-CINNAMALDEHYDE \* TRANS-CINNAMALDEHYDE \* TRANS-CINNAMIC ALDEHYDE \*  
TRANS-CINNAMYLALDEHYDE \* (E)-3-PHENYLPROPENAL \* (E)-3-PHENYL-2-  
PROPENAL \* 2-PROPENAL, 3-PHENYL-, (E)- (9CI) \*

### TOXICITY HAZARDS

RTECS #: GD6476000  
CINNAMALDEHYDE, (E)-

### REVIEWS, STANDARDS, AND REGULATIONS

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993  
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
COMPLETE INFORMATION.

### HEALTH HAZARD DATA

### ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.  
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
CAUSES SKIN IRRITATION.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

### FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF  
WATER FOR AT LEAST 15 MINUTES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS  
AMOUNTS OF WATER.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.

### PHYSICAL DATA

BOILING POINT: 250 C TO 252 C  
MELTING POINT: -75 C

CONTINUED ON NEXT PAGE

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MF: C9H8O

**PHYSICAL DATA**

SPECIFIC GRAVITY: 1.050

VAPOR DENSITY: 4.6

APPEARANCE AND ODOR  
LIGHT YELLOW LIQUID

**FIRE AND EXPLOSION HAZARD DATA**

FLASHPOINT 160 F

EXTINGUISHING MEDIA  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
PREVENT CONTACT WITH SKIN AND EYES.  
COMBUSTIBLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**REACTIVITY DATA**

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE

**SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
EVACUATE AREA.  
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY  
RUBBER GLOVES.  
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER

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**S P I L L   O R   L E A K   P R O C E D U R E S**

AND HOLD FOR WASTE DISPOSAL.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.  
WASTE DISPOSAL METHOD  
THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR  
EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**P R E C A U T I O N S   T O   B E   T A K E N   I N   H A N D L I N G   A N D   S T O R A G E**  
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT  
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.

DO NOT BREATHE VAPOR.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
WASH THOROUGHLY AFTER HANDLING.

IRRITANT.  
KEEP TIGHTLY CLOSED.  
KEEP AWAY FROM HEAT AND OPEN FLAME.  
STORE UNDER NITROGEN.  
REFRIGERATE.

**A D D I T I O N A L   P R E C A U T I O N A R Y   S T A T E M E N T S**

IRRITANT  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
COMBUSTIBLE.  
KEEP AWAY FROM HEAT AND OPEN FLAME.  
REFRIGERATE.  
STORE UNDER NITROGEN.  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE  
PROTECTION.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO  
BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE  
HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH  
THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR  
ADDITIONAL TERMS AND CONDITIONS OF SALE.

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