



# MATERIAL SAFETY DATA SHEET

D-114

## VIBRACURE® A 296

Version: 1.1  
DATE OF ISSUE: 01/09/2006  
Date printed: 01/13/2006

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name :** VIBRACURE® A 296

**Chemical name:** Diol curative mixture

**Use of substance/preparation:** No specific information.

**Supplier:** Chemtura USA Corporation  
Chemtura Corporation (Worldwide HQ)  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number** CHEMTREC (24 hours) 800-424-9300  
Chemtura Corporation Emergency Response  
(24 hours) 800-292-5898  
**For additional emergency telephone numbers  
see section 16 of the Safety Data Sheet.**

**Environmental, Health and Safety Department:** 866-430-2775  
Tel.: +44 (0) 1753.603.000

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
1,4-Butanediol CAS# 110-63-4	96

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

#### CAUTION!

MAY BE IRRITATING TO RESPIRATORY SYSTEM, SKIN AND EYES.  
MAY BE HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.  
MAY CAUSE KIDNEY AND NERVOUS SYSTEM DAMAGE.



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**4. FIRST AID MEASURES**

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**Swallowing**

Do not induce vomiting., Rinse mouth with water., Obtain medical attention.

**Skin contact**

Remove contaminated clothing., Wash thoroughly with warm water using a mild soap., Obtain medical attention if irritation persists.

**Inhalation**

Remove to fresh air., Obtain medical attention.

**Eye contact**

Immediately flush eyes with water and continue washing for several minutes., Obtain medical attention if irritation persists.

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**5. FIRE-FIGHTING MEASURES**

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**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Special fire fighting procedures**

Do not discharge extinguishing waters into streams, rivers and lakes.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

**Extinguishing media**

Suitable: - CO2  
- dry powder  
- foam  
- water fog

Unsuitable: - water spray

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions**

Wear suitable protective equipment., Avoid contact with eyes and skin.

**Environmental precautions**

Prevent from entering sewer system, surface water or soil.



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### Methods for cleaning up

Sweep up and collect in a suitable container for disposal.  
Avoid dust formation.

## 7. HANDLING AND STORAGE

### HANDLING

#### Handling precautions

Do not get in eyes, on skin, on clothing.

### STORAGE

#### Storage requirements

Store in a cool, dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

No other exposure limits have been established

### PERSONAL PROTECTION

#### Respiratory protection

A respirator approved for dust/fume or mist protection is recommended for mists, sprays or aerosols.

#### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Safety glasses with side shields.

#### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

### ENGINEERING CONTROLS

#### Ventilation

Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapor concentrations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Physical state	Solid
Color	White
Odor	Characteristic



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Odor threshold	Not available
<b>OTHER PROPERTIES</b>	
Boiling point	Not available
pH	Not available
Specific gravity (H <sub>2</sub> O=1)	Not available
Solubility in water	Not available
Solubility in organic solvents	Soluble
Evaporation rate (Butyl Acetate=1)	Not available
Partitioning coefficient	Not available
Flash point	Not available
Percent volatiles	Negligible
Dynamic viscosity	No data available.

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## 10. STABILITY AND REACTIVITY

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**Stability:** This product is stable under normal storage and handling conditions.

**Incompatible materials**

Oxidizing agents.  
Strong acids.  
Strong bases.

**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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Component data 1,4-Butanediol Acute toxicity - Swallowing:	LD50 - Rat Result: 1,525 mg/kg
Component data	LD50 - Rabbit



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1,4-Butanediol Acute toxicity - Swallowing:	Result: 2,531 mg/kg
<u>Component data</u> 1,4-Butanediol Acute toxicity - Swallowing:	LD50 - Mouse Result: 2,062 mg/kg
<u>Component data</u> 1,4-Butanediol Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2,000 mg/kg
<u>Component data</u> 1,4-Butanediol Acute toxicity - Inhalation:	LC50 - Rat Result: > 5.1 mg/l Exposure time: 4 h Remark: Aerosol
<u>Component data</u> 1,4-Butanediol Skin irritation - Skin contact:	Species: Rabbit Result: Non irritating.
<u>Component data</u> 1,4-Butanediol Eye irritation - Eye contact:	Species: Rabbit Result: Slight irritation
<u>Component data</u> 1,4-Butanediol Sensitization:	Result: Non sensitizing.

### MUTAGENICITY

<u>Component data</u> 1,4-Butanediol <u>Genetic toxicity in vitro -</u> Mutagenicity:	Test type: Ames bacterial assay Result: Negative
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## 12. ECOLOGICAL INFORMATION

No information available.

<u>Component ecotoxicology</u> 1,4-Butanediol <u>Acute toxicity fish:</u>	LC50 - Golden orfe ( <i>Leuciscus idus</i> ) Result: > 10,000 mg/l Exposure time: 96 h
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<u>Component ecotoxicology</u> 1,4-Butanediol <u>Aquatic toxicity to plants:</u>	EC50 - Algae Result: > 500 mg/l Exposure time: 96 h
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	Exposure time: 96 h
<u>Component ecotoxicology</u> 1,4-Butanediol <u>Microorganisms:</u>	EC50 - Bacteria Result: > 10,000 mg/l Exposure time: 17 h
<u>Component ecotoxicology</u> 1,4-Butanediol <u>Acute toxicity to aquatic invertebrates:</u>	EC50 - Water flea (Daphnia magna) Result: > 500 mg/l Exposure time: 48 h

### 13. DISPOSAL CONSIDERATIONS

**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

#### **Non-cleaned packages**

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.

### 14. TRANSPORT INFORMATION

#### **DOT Classification**

This product is not regulated by DOT.

#### **IMDG Classification**

This product is not regulated by IMDG.

#### **ICAO Classification**

This product is not regulated by ICAO.

### 15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:



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\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

### New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
1,4-Butanediol	110-63-4	
Propylidyntrimethanol	77-99-6	

EPA Hazard Categories (SARA 311, 312): Not applicable

### California Proposition 65

\*\*\*\* NONE \*\*\*\*

### CHEMICAL INVENTORY

<u>Canada:</u>	The ingredients of this product are on the DSL.
<u>Europe:</u>	The ingredients of this mixture are on the EINECS inventory.
<u>United States:</u>	The ingredients of this product are on the TSCA inventory.
<u>Australia:</u>	The ingredients of this product are on the AICS inventory.
<u>China:</u>	This product is on the IECSC Inventory.
<u>Japan:</u>	The ingredients of this product are on the ENCS inventory.
<u>Korea:</u>	The ingredients of this product are on the ECL.
<u>Philippines:</u>	The ingredients of this product are on the PICCS.

## 16. OTHER INFORMATION

### FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

### Emergency Telephone Numbers

Latin America:	All	+44 (0)208 762 8322
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STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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