

Revision number: 3 Revision date: 08/18/2015

# 1. IDENTIFICATION

Product name: Product code: Efavirenz E0997

Warning!

Harmful if swallowed

Product use: Restrictions on use:

### Company:

CI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4]

Signal word:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If swallowed: Immediately call a poison center or doctor. Rinse mouth. None Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance Efavirenz
Percent:	>98.0%(HPLC)(N)
CAS Number:	154598-52-4
Molecular Weight:	315.68
Chemical Formula:	C <sub>14</sub> H <sub>9</sub> CIF <sub>3</sub> NO <sub>2</sub>
Synonyms:	(4S)-6-Chloro-4-(2-cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one

# 4. FIRST-AID MEASURES

For laboratory research purposes. Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

Chemical TCI Ameri +1-503-28 Transporta Chemtrec +1-800-42 +1-703-52 <b>Responsi</b> TCI Ameri	ation Emergencies: 24-Hour 24-9300 (U.S.A.) 27-3887 (International) <b>ble department:</b>
	ental Health Safety and Security

4. FIRST-AID MEASURES	
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat
	symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and
	take precautions to protect themselves.
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and isolate contaminated clothing and shoes. In
	case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat
	symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and
	take precautions to protect themselves.
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water,
	occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical
	personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Harmful if swallowed. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute:	No data available
Delayed:	No data available
Delayeu.	
mmediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because
initial attention.	the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid
	treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s)
	involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Cuitable avtinguishing modia.	Dry chamical CO cond parth water array or regular from Consult with local fire outhorities before
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam Consult with local fire authorities before
	attempting large scale fire fighting operations.
Specific hazards arising from the ch	emical
Hazardous combustion products:	These products include: Carbon oxides Halogenated compounds
Other specific hazards:	WARNING: Highly toxic HCI gas is produced during combustion.
	WARNING: Highly toxic HF gas is produced during combustion.
Special precautions for fire-fighters:	
	ight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when
neated. Move containers from fire area	if you can do it without risk.
Special protective equipment for fire	
	preathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations
	tuations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
provide little or no thermal protection.	
6. ACCIDENTAL RELEASE MEA	SURES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch
	damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn
	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.
	Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Safety glasses. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or
ersonar protective equipment:	equivalent. Wear protective gloves (nitrile).
mergency procedures	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing

### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

confined areas; dike if needed.

appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

#### 7. HANDLING AND STORAGE Precautions for safe handling: Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Conditions for safe storage: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store in a freezer. Storage incompatibilities: Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** No data available

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Very pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	138°C (280°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	4.7	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data avai	No data available lable

Solubility(ies): Water: Insoluble Very soluble: Methanol, Ethanol

## 10. STABILITY AND REACTIVITY

**Reactivity: Chemical Stability:** Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

Upper:

No data available

# 11. TOXICOLOGICAL INFORMATION

RTECS Number: DM3440000

Efavirenz	TCI AMI	ERICA		Page 4 of 5
Acute Toxicity: orl-hmn TDLo:5.714 mg/kg				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Routes of Exposure: Inhalation, Eye contact, Ingestion.   Symptoms related to exposure: Overexposure may result in serious illness or death.   Potential Health Effects: No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.   Target organ(s): No data available				
12. ECOLOGICAL INFORMATION				
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available			
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available No data available No data available 4.7 No data available 7.1 x 10 <sup>-4</sup>			
<b>13. DISPOSAL CONSIDERATIONS</b> Disposal of product:	rules and regulation chemical incinerator	ns. You may be able to disso or equipped with an afterburn	lve or mix material with er and scrubber system	mply with Federal, State and Local h a combustible solvent and burn in a m. This section is intended to provide ccordance with this section ensure
	regulatory complia	nce according to the law. US 40 CFR Parts 261. The proc	EPA guidelines for Ide	entification and Listing of Hazardous wed to enter the environment, drains,

Dispose of as unused product. Do not re-use empty containers.

Observe all federal, state and local regulations when disposing of the substance.

Disposal of container: Other considerations:

DOT (US) Non-hazardous for transportation.

water ways, or the soil.

IATA Non-hazardous for transportation.

IMDG Non-hazardous for transportation.

## 15. REGULATORY INFORMATION

### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

### **US Federal Regulations**

## CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

### **State Regulations**

#### State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

### Other Information

#### **NFPA Rating:**

-				
Health:	0		Health:	0
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	ntories			
WHMIS hazard class:		No data available.		

# 16. OTHER INFORMATION

#### Revision date: 08/18/2015

#### Revision number: 3

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

HMIS Classification: