

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

1 / 12



## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : ANCAMINE T

### 1.2. Recommended use of the chemical and restrictions on use

Recommended use : Epoxy Curing Agent

Non-recommended use(s) : None known.

### 1.3. Details of the supplier of the safety data sheet

Company : Company  
Evonik Corporation USA  
299 Jefferson Road  
Parsippany NJ 07054-0677  
USA

Telephone : +1 (0)973-929-8000

Telefax : +1 (0)973-929-8040

E-mail : Product-Regulatory-Services@Evonik.com

#### Contact Canada

Company :

Telephone : +1 (0)973-929-8000

Telefax : +1 (0)973-929-8040

E-mail : Product-Regulatory-Services@Evonik.com

### 1.4. Emergency telephone number

Emergency information : Non-Emergency Phone Number : (800) 345-3148  
In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD:  
1-703-527-3887.

24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA toll free: +1-800-424-9300

CHEMTREC - MEXICO toll free: 01-800-681-9531

CHEMTREC GLOBAL - Collect calls accepted: +1-703-527-3887

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation)	Category 2	H330
Skin corrosion	Category 1C	H314
Serious eye damage	Category 1	H318
Skin Sensitisation	Category 1	H317
Specific target organ toxicity - single exposure (Respiratory system)	Category 3	H335

### 2.2. Label elements

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version  
Revision date  
Print Date  
Page1.0 / US  
08/09/2018  
02/20/2019  
2 / 12

## GHS classification in accordance with 29 CFR 1910.1200

Symbol(s)



Signal word

: Danger

hazard statement

: H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H330 - Fatal if inhaled.  
H335 - May cause respiratory irritation.Precautionary  
Statement  
(Prevention): P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 - Wear respiratory protection.  
P264 - Wash hands thoroughly after handling.Precautionary  
Statement  
(Response): P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER/doctor.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.  
P363 - Wash contaminated clothing before reuse.Precautionary  
Statement (Storage): P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.Precautionary  
Statement (Disposal)

: P501 - Dispose of contents/ container to an approved waste disposal plant.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

### 3.1. Substances

-

### 3.2. Mixtures

#### Hazardous components

Chemical Name	NJ Trade secrets CAS-No.	Concentration	Classification
Deta, reaction products with ethylene oxide	- 28063-82-3	> 70 %	H318, 1, Eye Dam.
2,2'-Iminodi(ethylamine)	- 111-40-0	< 30 %	H302, 4, Acute Tox., Oral H330, 2, Acute Tox., Inhalation H312, 4, Acute Tox., Dermal H314, 1B, Skin Corr. H318, 1, Eye Dam.

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

Revision date

Print Date

Page

1.0 / US

08/09/2018

02/20/2019

3 / 12



			H317, 1B, Skin.sens. H335, 3, STOT SE
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Texts of H phrases, see in Chapter 16

## 4. First aid measures

### 4.1. Description of first aid measures

General advice	: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Inhalation	: Move to fresh air.If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Skin contact	: Wash off immediately with soap and plenty of water.Take off contaminated clothing and shoes immediately. Cover wound with sterile dressing. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Flush immediately with copious amounts of water.
Eye contact	: Rinse immediately with plenty of water for at least 15 minutes.Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
Ingestion	: Prevent aspiration of vomit. Turn victim's head to the side.If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Dry chemical Dry sand Limestone powder Alcohol-resistant foam
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Unsuitable extinguishing media	: no data available
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### 5.2. Special hazards arising from the substance or mixture

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

Revision date

Print Date

Page

1.0 / US

08/09/2018

02/20/2019

4 / 12



Incomplete combustion may form carbon monoxide.  
May generate ammonia gas.  
May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes.  
Downwind personnel must be evacuated.

## 5.3. Advice for firefighters

Use personal protective equipment.  
Wear self-contained breathing apparatus for firefighting if necessary.  
  
Avoid contact with skin.  
A face shield should be worn.  
  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Do not allow run-off from fire fighting to enter drains or water courses.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use self-contained breathing apparatus and chemically protective clothing.

### 6.2. Environmental precautions

Construct a dike to prevent spreading.

### 6.3. Methods and material for containment and cleaning up

Place in appropriate chemical waste container. Approach suspected leak areas with caution.  
Call Emergency Response number for advice.  
  
If possible, stop flow of product.  
  
Evacuate area and do not approach spilled product.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling : Use personal protective equipment.

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.  
Do not breathe spray.

Use only in well-ventilated areas.  
Avoid contact with skin and eyes.  
Avoid breathing vapors and/or aerosols.  
Emergency showers and eye wash stations should be readily accessible.  
Adhere to work practice rules established by government regulations.

Hygiene measures : Provide readily accessible eye wash stations and safety showers.

General protective measures : Discard contaminated leather articles.

Remove contaminated clothing. Drench affected area with water for at least 15 minutes.  
Wash hands at the end of each workshift and before eating, smoking or using the toilet.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Prevention of fire and explosion

Information : No special measures required.

#### Storage

**SAFETY DATA SHEET (SDS-US)**

ANCAMINE T

VA-No.

Version

Revision date

Print Date

Page

1.0 / US

08/09/2018

02/20/2019

5 / 12



Information

: Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. Exposure controls/personal protection****8.1. Control parameters****Exposure limit(s)**

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
Diethylenetriamine	111-40-0	ACGIH (03 2016)	TWA	1 ppm	
		ACGIH (03 2016)	SKIN_DES		
	Can be absorbed through the skin.				
		ACGIH (01 2006)			
	Listed.				
		NIOSH (2010)	REL	1 ppm 4 mg/m3	
		NIOSH (2010)	SKIN_DES		
	Can be absorbed through the skin.				
		NIOSH (2005)			
	Listed.				
		OSHA Z1A (1989)	TWA	1 ppm 4 mg/m3	
		OSHA Z1A (1989)			
	Listed.				
		US CA OEL (07 2001)			
	Listed.				
		US CA OEL (07 2001)	TWA PEL	1 ppm 4 mg/m3	
		US CA OEL (07 2001)	SKIN_DES		
	Can be absorbed through the skin.				
		TN OEL (06 2008)	TWA	1 ppm 4 mg/m3	

**8.2. Exposure controls****Engineering controls**

Appropriate

engineering controls

: Provide readily accessible eye wash stations and safety showers.  
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.**Personal protective equipment**

Eye protection

: Full face shield with goggles underneath.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
butyl-rubber  
Nitrile rubber  
Neoprene gloves

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

6 / 12



	Impervious gloves
Body Protection	: No specific recommendation. Impervious clothing Rubber or plastic boots Slicker Suit.
Respiratory protection	: Not required for properly ventilated areas. During spraying, wear suitable respiratory equipment. Wear appropriate respirator when ventilation is inadequate.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: colourless
Odour	: ammoniacal
Odour Threshold	: no data available
pH	: alkaline
Melting point	: -35 °C
Boiling point	: Boiling point/range 220 °C
Flash point	: > 100 °C
Evaporation rate	: no data available
Flammability	: no data available
Upper Explosion/Ignition Limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: < 1.33 hPa (21 °C)
Relative vapour density	: no data available
Relative density	: (water = 1) 1.03
Solubility(ies)	: Medium: Alcohol Remarks: Slight (0.1 - 1%) Medium: Solubility in n-Octanol Remarks: completely soluble
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: no data available

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version  
Revision date  
Print Date  
Page

1.0 / US  
08/09/2018  
02/20/2019  
7 / 12



Autoignition temperature : no data available

Thermal decomposition : no data available

Viscosity, kinematic : no data available

Viscosity, dynamic : no data available

Explosive properties : no data available

Oxidising properties : no data available

## 9.2. Other information

Density : 1.03 g/cm<sup>3</sup>  
(21 °C)

Other information :

## 10. Stability and reactivity

### 10.1. Reactivity

see section "Possibility of hazardous reactions"

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

no data available

### 10.5. Incompatible materials

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Nitrous acid and other nitrosating agents

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

sodium hypochlorite

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents

### 10.6. Hazardous decomposition products

Nitric acid

Ammonia

Nitrogen oxides (NO<sub>x</sub>)

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Nitrosamine

## 11. Toxicological information

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

8 / 12



## 11.1. Information on toxicological effects

- Acute toxicity (oral) : No data is available on the product itself.
- Acute toxicity (inhalation) : No data is available on the product itself.
- Acute toxicity (dermal) : No data is available on the product itself.
- Irritation/corrosion of the skin : Species: Rabbit  
Exposure duration: 4 h  
Remarks: Corrosive to the skin of a rabbit.
- Serious eye damage/ eye irritation : Risk of serious damage to eyes.
- Respiratory/skin sensitization : May cause sensitization by skin contact.
- Repeated dose toxicity : no data available

### CMR assessment

- Carcinogenicity : no data available
- Mutagenicity : The product or a component may be mutagenic, the data is inconclusive.
- Teratogenicity : No data is available on the product itself.
- Toxicity to reproduction : No data is available on the product itself.

### US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### US. IARC Monographs on Occupational Exposures to Chemical Agents

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

- Specific Target Organ Toxicity - Single exposure : no data available
- Specific Target Organ Toxicity - Repeated exposure : no data available
- Aspiration hazard : no data available

## 12. Ecological information

### Ecotoxicology Assessment

- Acute aquatic toxicity : no data available
- Chronic aquatic toxicity : no data available

### 12.1. Toxicity



# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

9 / 12



Aquatic toxicity, fish : No data is available on the product itself.

Aquatic toxicity, invertebrates : No data is available on the product itself.

Aquatic toxicity, algae / aquatic plants : No data is available on the product itself.

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic invertebrates : no data available

## 12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

## 12.3. Bioaccumulative potential

Bioaccumulation : no data available

## 12.4. Mobility in soil

Environmental distribution : no data available

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

## 12.6. Other adverse effects

General Information : Do not allow to enter soil, waterways or waste water canal.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Product : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

## 14. Transport information

### D.O.T. Road/Rail

14.1. UN number:

UN 2735

14.2. UN proper shipping name:

Amines, liquid, corrosive, n.o.s. (Diethylenetriamine)

14.3. Transport hazard class(es):

8

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

10 / 12



- 14.4. Packing group: III  
14.5. Environmental hazards (Marine pollutant): --  
14.6. Special precautions for user: Yes  
Keep separate from foodstuffs, luxury foods, feedstuffs

## Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 2735  
14.2. UN proper shipping name: Amines, liquid, corrosive, n.o.s.(Diethylenetriamine)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: III  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
Keep separate from foodstuffs, luxury foods, feedstuffs

## Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 2735  
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.(Diethylenetriamine)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: III  
14.5. Environmental hazards (Marine pollutant): --  
14.6. Special precautions for user: Yes  
EmS: F-A,S-B  
Keep separate from acids.  
Keep separate from foodstuffs, luxury foods, feedstuffs

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
for transport approval see regulatory information

## 15. Regulatory information

### US Federal Regulations

SARA Title III Section 311/312 Hazard Categories  
- Acute Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

- This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

- No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### HMIS Ratings

Health:	3
Flammability:	1
Reactivity:	0

### Notification status

Europe : listed/registered or exempted

# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

1.0 / US

Revision date

08/09/2018

Print Date

02/20/2019

Page

11 / 12



(EINECS/ELINCS)

USA (TSCA) : listed/registered or exempted

Canada (DSL) : listed/registered or exempted

Australia (AICS) : listed/registered or exempted

Japan (ENCS) : listed/registered or exempted

Korea (TCCL) : listed/registered or exempted

Philippines (PICCS) : not listed/registered

China (IECSC) : listed/registered or exempted

## 16. Other information

### List of references

Revision date : 08/09/2018

### Relevant H phrases from chapter 3

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H335 : May cause respiratory irritation.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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# SAFETY DATA SHEET (SDS-US)

ANCAMINE T

VA-No.

Version

Revision date

Print Date

Page

1.0 / US

08/09/2018

02/20/2019

12 / 12



## Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization