

# Safety Data Sheet

## 55U-10 Epoxy Activator

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### 1. Identification

**Product identifier used on the label**

**55U-10 Epoxy Activator**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Paints, Coatings and Related Materials; for industrial use only

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

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### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Flam. Liq.	3	Flammable liquids
Carc.	2	Carcinogenicity
STOT SE	3 (May cause drowsiness and	Specific target organ toxicity — single exposure

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Aquatic Chronic      dizziness.)  
3      Hazardous to the aquatic environment - chronic

### Label elements

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P201	Obtain special instructions before use.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P261	Avoid breathing mist or vapour or spray.
P264	Wash contaminated body parts thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

Precautionary Statements (Response):

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or physician if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P370 + P378 In case of fire: Use water spray for extinction.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P337 + P313 If eye irritation persists: Get medical attention.  
P308 + P313 IF exposed or concerned: Get medical attention.

### Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

No applicable information available.

## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

CAS Number: 98-56-6

Content (W/W):  $\geq 25.0$  -  $< 50.0\%$

Synonym: No data available.

Benzyl alcohol

CAS Number: 100-51-6

Content (W/W):  $\geq 10.0$  -  $< 15.0\%$

Synonym: Benzenemethanol; Benzyl alcohol

triethylenetetramine

CAS Number: 112-24-3

Content (W/W):  $\geq 1.0$  -  $< 3.0\%$

Synonym: N,N'-Bis(2-aminoethyl)-1,2-ethanediamine; TETA, Triethylenetetramine

## 4. First-Aid Measures

### Description of first aid measures

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### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove contaminated clothing.

### If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

### If on skin:

Seek medical attention. Immediately wash affected area with soap and water for 20-30 minutes or until chemical is removed. Immediately wash thoroughly with soap and water, seek medical attention.

### If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

### If swallowed:

Immediate medical attention required. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: Benzyl alcohol*

*Symptoms: Overexposure may cause: vomiting, dizziness, nausea, diarrhea*

*Information on: triethylenetetramine*

*Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene*

*Symptoms: Overexposure may cause: lethargy, nausea, headache, dizziness*

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Hazards: No applicable information available.

## Indication of any immediate medical attention and special treatment needed

### Note to physician

Treatment:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.
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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
carbon dioxide, foam, dry powder, water spray

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Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Vapors and/or decomposition products are irritant and/or toxic. If product is heated above decomposition temperature acrid smoke and fumes will be released.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Avoid water contamination in closed containers or confined areas, because carbon dioxide gas is generated. Notify proper authorities. Do not flood burning material with water due to potential spreading of fire. Flash fire may occur. Run-off water from fire may cause pollution. Contain contaminated water/firefighting water. Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use antistatic tools. Extinguish sources of ignition nearby and downwind. Avoid prolonged inhalation. Wear suitable personal protective clothing and equipment. Ensure adequate ventilation.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.

### Methods and material for containment and cleaning up

Dike spillage. Spills should be contained, solidified, and placed in suitable containers for disposal. Place into appropriately labeled waste containers. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours before sealing and disposing.

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## 7. Handling and Storage

### Precautions for safe handling

Handle and open container with care. WARNING: Empty containers may still contain hazardous residue. Caution: Contains lead compounds. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces. Do not apply to hot surfaces.

Protection against fire and explosion:

Risk of explosion if heated under confinement. Use antistatic tools. Exhaust fans should be explosion proof. Avoid all sources of ignition: heat, sparks, open flame. Provide adequate ventilation to remove

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solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources. Sealed containers should be protected against heat as this results in pressure build-up.

### Conditions for safe storage, including any incompatibilities

Segregate from strong bases. Segregate from oxidizing agents. Segregate from incompatible substances. Segregate from strong acids.

Suitable materials for containers: Carbon steel (Iron), Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, tinned carbon steel (Tinplate), Stove lacquer Valspar 36516AA

Further information on storage conditions: Keep container tightly closed. Protect from direct sunlight.

Storage stability:

Consult local fire marshal for storage requirements.

Protect from temperatures above: 50 °C

## 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

### Advice on system design:

General mechanical ventilation should comply with OSHA 1910.94.

Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

#### Respiratory protection:

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Particulate filters should be added during spray operations. Wear respiratory protection if ventilation is inadequate.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### Hand protection:

Use appropriate chemically impervious gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

#### Eye protection:

Wear face shield if splashing hazard exists. Tightly fitting safety goggles (chemical goggles).

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures:

Work place should be equipped with a shower and an eye wash. Consider the type of application and environmental concentrations to maintain the actual exposures below the established exposure limits. Remove contaminated clothing. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Contact lenses should not be worn. Hands and/or face should be washed before breaks and at the end of the shift.

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### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No applicable information available.	
Colour:	amber	
pH value:	No applicable information available.	
Melting point:	No applicable information available.	
Freezing point:	No applicable information available.	
Boiling range:	141 - 151 °C 286 - 304 °F	
Sublimation point:	No applicable information available.	
Flash point:	> 42 °C > 108 °F	(ASTM D3278) (ASTM D3278)
Flammability:	The product burns self-sustainingly No applicable information available.	
Lower explosion limit:	No applicable information available.	
Upper explosion limit:	10.50 %(V)	
Autoignition:	No applicable information available.	
Vapour pressure:	7.00 hPa ( 20 °C) 32.00 hPa ( 50 °C)	
Density:	1.134 g/cm3 ( 20 °C) 9.4637 lb/USg	
Relative density:	1.134 ( 20 °C)	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Thermal decomposition:	No applicable information available.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	20.7 mm2/s ( 23 °C) ( 40 °C)	
Solubility in water:	No data available.	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Molar mass:	No applicable information available.	
Evaporation rate:	No applicable information available.	

### 10. Stability and Reactivity

#### Reactivity

No applicable information available.

#### Chemical stability

The product is chemically stable.

#### Possibility of hazardous reactions

No applicable information available.

#### Conditions to avoid

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Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

### Incompatible materials

strong oxidizing agents, strong bases, strong acids

### Hazardous decomposition products

Decomposition products:

carbon dioxide, carbon monoxide

Thermal decomposition:

No applicable information available.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Based on available data, the classification criteria are not met.

#### Oral

Type of value: ATE

Value: 12,724 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Inhalation

Type of value: ATE

Value: 107 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Dermal

Type of value: ATE

Value: 57,013 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

#### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

#### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.



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### Aspiration Hazard

No aspiration hazard expected.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

#### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

#### Carcinogenicity

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

#### *Information on: triethylenetetramine*

*Assessment of carcinogenicity: The substance showed no carcinogenic activity in animals after chronic administration to the skin. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.*

#### *Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene*

*Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. On the basis of currently available information, a final assessment is not possible.*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed as reasonably anticipated to be a human carcinogen.*

#### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

#### *Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene*

*Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at high doses. On the basis of currently available information, a final assessment is not possible. No reproductive toxic effects reported.*

#### Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

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### 13. Disposal considerations

#### Waste disposal of substance:

Do not incinerate closed containers. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Do not discharge into drains/surface waters/groundwater.

Incinerate or dispose of in a RCRA-licensed facility. Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

#### Container disposal:

Do not reuse containers without commercial reconditioning. WARNING: Empty containers may still contain hazardous residue.

Dispose of in accordance with national, state and local regulations.

### 14. Transport Information

#### Land transport

USDOT

Hazard class:	3
Packing group:	III
ID number:	UN 1263
Hazard label:	3
Proper shipping name:	PAINT

#### Sea transport

IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1263
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	PAINT

#### Air transport

IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1263
Hazard label:	3
Proper shipping name:	PAINT

### 15. Regulatory Information

#### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

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**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	112-24-3	triethylenetetramine
	98-56-6	4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene
PA	100-51-6	Benzyl alcohol
	112-24-3	triethylenetetramine

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including P-CHLORO-#,#,#-TRIFLUOROTOLUENE (PARA-CHLOROBENZOTRIFLUORIDE, PCBTf), which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **NFPA Hazard codes:**

Health: 2      Fire: 2      Reactivity: 0      Special:

### **HMIS III rating**

Health: 2 $\alpha$       Flammability: 2      Physical hazard: 0

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2024/02/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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