

# Safety Data Sheet

## ENERTITE G RESIN

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(30685345/SDS\_GEN\_US/EN)

### 1. Identification

Product identifier used on the label

## ENERTITE G RESIN

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

Recommended use\*: polyurethane component; industrial chemicals  
Suitable for use in industrial sector: Polymers industry; chemical industry  
Unsuitable for use: Uses other than recommended

\* 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

Chemical family: resin  
Synonyms: Urethane System Resin Component

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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.	1	Serious eye damage/eye irritation
STOT RE	2 (oral)	Specific target organ toxicity — repeated exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute

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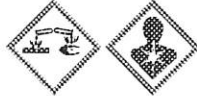
Aquatic Chronic

3

Hazardous to the aquatic environment - chronic

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure (oral).  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.  
P273 Avoid release to the environment.  
P260 Do not breathe dust/gas/mist/vapours.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

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 or physician.  
P303 + P362 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

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### 3. Composition / Information on Ingredients

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

tris(2-chloro-1-methylethyl)phosphate

CAS Number: 13674-84-5

Content (W/W): >= 15.0 - < 20.0%

Synonym: 1-Chloro-2-propanol phosphate (3:1); Tris (2-chloro-1-methylethyl)phosphate

4-Nonylphenol, branched, ethoxylated

CAS Number: 127087-87-0

Content (W/W): >= 5.0 - < 15.0%

Synonym: 4-Nonylphenol, branched, ethoxylated

2-((2-(dimethylamino)ethyl)methylamino)ethanol

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CAS Number: 2212-32-0  
Content (W/W):  $\geq 5.0$  -  $< 7.0\%$   
Synonym: 2-[[2-(Dimethylamino)ethyl]methylamino]ethanol

N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine  
CAS Number: 6711-48-4  
Content (W/W):  $\geq 3.0$  -  $< 5.0\%$   
Synonym: No data available.

diethylene glycol  
CAS Number: 111-46-6  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: Diethylene glycol

2-((2-(2-(dimethyl amino)ethoxy)ethyl)methyl amino)ethanol  
CAS Number: 83016-70-0  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: No data available.

alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))  
CAS Number: 9046-10-0  
Content (W/W):  $\geq 0.3$  -  $< 1.0\%$   
Synonym: Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-  
.omega.-(2-aminomethylethoxy)-

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### 4. First-Aid Measures

#### Description of first aid measures

##### 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). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

##### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

##### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: (Further) symptoms and / or effects are not known so far

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*Information on: diethylene glycol*

*Symptoms: Overexposure may cause:; vomiting, coma, abdominal cramps, lethargy, nausea, diarrhea, headache*

*Information on: tris(2-chloro-1-methylethyl)phosphate*

*Symptoms: Overexposure may cause:; convulsions, depression, hypoxemia, tremors*

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Hazards: No hazards anticipated.

### 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:  
water spray, dry powder, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
No particular hazards known.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

### Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

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### 7. Handling and Storage

#### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Avoid inhalation of dusts/mists/vapours. When using do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Protect against moisture.

Protection against fire and explosion:

No special precautions necessary.

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

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Storage stability:

Storage temperature: 16 - 27 °C

Protect against moisture.

The stated storage temperature is noted for health and safety in the workplace. With regard to Quality, please refer to the product specific Technical Bulletin.

### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

#### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

#### Personal protective equipment

##### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

##### Hand protection:

Chemical resistant protective gloves

##### Eye protection:

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

##### Body protection:

Standard work clothes and shoes.

##### General safety and hygiene measures:

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately. Do not eat, drink or use tobacco while working. Wash thoroughly after handling.

### 9. Physical and Chemical Properties

Form: liquid  
Odour: amine-like

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Odour threshold:	No applicable information available.	
Colour:	yellow	
pH value:	9.5	
Melting point:	0.00 °C	
Boiling point:	100.00 °C	
Sublimation point:	No applicable information available.	
Flash point:	> 200.00 °F	(closed cup)
Flammability:	not flammable	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	> 250 °C	
Vapour pressure:	< 0.1 hPa ( 25 °C)	
Density:	1.12 g/cm <sup>3</sup> ( 20.00 °C)	
Relative density:	No applicable information available.	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	Unspecified	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	350.000 mPa.s ( 25.00 °C)	
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	slightly soluble	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Molar mass:	not applicable	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Not an oxidizer.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

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### Conditions to avoid

Temperature: < 0 degrees Celsius

### Incompatible materials

acids, oxidizing agents, isocyanates

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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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

#### Oral

Type of value: ATE  
Value: 2,737 mg/kg

#### Inhalation

No applicable information available.

#### Dermal

No applicable information available.

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Origin of data: expert judgement

#### Irritation / corrosion

Assessment of irritating effects: Causes skin irritation. Causes serious eye damage.

#### Skin

Species: In vitro assay  
Result: Non corrosive.  
Method: OECD Guideline 435

#### Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect. No applicable information available.

#### Aspiration Hazard

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No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

#### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

#### Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

#### Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

#### Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

#### Other Information

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

#### Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

#### Toxicity to fish

*Information on: alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))*

*LC50 (96 h) > 15 mg/l, Oncorhynchus mykiss (OECD Guideline 203, semistatic)*

*The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).*

*LC50 (96 h) 772.14 mg/l, Cyprinodon variegatus (OECD Guideline 203, static)*

*The details of the toxic effect relate to the nominal concentration.*

*Information on: 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, mixed esters with diethylene glycol and propyle*

*LC50 (96 h) 12 mg/l, Lepomis macrochirus (other)*

*Information on: 2-Propanol, 1-chloro-, phosphate (3:1)*



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LC50 (96 h) 51 mg/l, *Pimephales promelas* (Fish test acute, static)

LC50 (96 h) 56 mg/l, *Brachydanio rerio* (Fish test acute, static)

Information on: N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine

LC50 (96 h) > 21.5 - < 46.4 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The statement of the toxic effect relates to the analytically determined concentration. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. After neutralization no appreciable reduction in harmful effect can be observed.

### Aquatic invertebrates

Information on: alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediy))

EC50 (48 h) 80 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration.

EC50 (48 h) 418.34 mg/l, *Arcatia tonsa* (*Daphnia* test acute, static)

The details of the toxic effect relate to the nominal concentration.

Information on: 2-Propanol, 1-chloro-, phosphate (3:1)

EC50 (48 h) 131 mg/l, *Daphnia magna*

Information on: N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine

EC50 (48 h) 24 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

### Aquatic plants

Information on: alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediy))

EC50 (72 h) 15 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration.

EC10 (72 h) 1.4 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration.

EC50 (72 h) 141.72 mg/l, *Skeletonema costatum* (ISO/DIS 10253, static)

The details of the toxic effect relate to the nominal concentration.

No observed effect concentration (72 h) 100 mg/l, *Skeletonema costatum* (ISO/DIS 10253, static)

The details of the toxic effect relate to the nominal concentration.

Information on: N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine

EC50 (72 h) 7.9 mg/l (biomass), algae (OECD Guideline 201, static)

No observed effect concentration (72 h) 1.2 mg/l (biomass), algae (OECD Guideline 201, static)

Lowest observed effect concentration (72 h) 1.7 mg/l (biomass), algae (OECD Guideline 201, static)

Information on: 2-Propanol, 1-chloro-, phosphate (3:1)

EC50 (72 h) 82 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Nominal concentration.

EC50 (72 h) 33 mg/l, *Pseudokirchneriella subcapitata*

### Chronic toxicity to aquatic invertebrates

Information on: N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine

No observed effect concentration (96 h) 3.5 mg/l, *Daphnia* sp.

Information on: alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediy))

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No data available regarding toxicity to daphnids.

*Information on: 2-Propanol, 1-chloro-, phosphate (3:1)*  
*No observed effect concentration (21 d) 32 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)*  
*Nominal concentration.*  
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### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

*Information on: N'-(3-(dimethylamino)propyl)-N,N-dimethylpropane-1,3-diamine*  
*activated sludge/EC20 (3 h): 170 mg/l*  
*OECD Guideline 209 static*  
*activated sludge/No observed effect concentration (3 h): 1,000 mg/l*  
*OECD Guideline 209 static*  
*activated sludge/EC50 (3 h): > 1,000 mg/l*

*Information on: alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))*  
*OECD Guideline 209 aerobic*  
*activated sludge of a predominantly domestic sewage/EC20 (3 h): 380 mg/l*  
*The details of the toxic effect relate to the nominal concentration.*

*Information on: 2-Propanol, 1-chloro-, phosphate (3:1)*  
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### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O)  
Poorly biodegradable.

#### Elimination information

Poorly biodegradable.

### Bioaccumulative potential

Assessment bioaccumulation potential  
Does not significantly accumulate in organisms.

### Mobility in soil

Assessment transport between environmental compartments  
Adsorption to solid soil phase is not expected.

### Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

Other ecotoxicological advice:  
The product has not been tested. Do not discharge product into the environment without control.

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### 13. Disposal considerations

**Waste disposal of substance:**

Do not discharge substance/product into sewer system. Incinerate or dispose of in a licensed facility.

**Container disposal:**

Do not reuse empty containers. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove.

### 14. Transport Information

**Land transport**  
USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

### 15. Regulatory Information

Federal Regulations

**Registration status:**

Chemical TSCA, US released / listed

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

State regulations

State RTK  
PA

CAS Number  
111-46-6

Chemical name  
diethylene glycol

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

**WARNING:** This product can expose you to chemicals including PROPYLENE OXIDE, which is known to the State of California to cause cancer, and TOLUENE, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** This product can expose you to chemicals including PROPYLENE OXIDE, which is known to the State of California to cause cancer, and TOLUENE, which is known to the State of

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California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 3      Fire: 1      Reactivity: 1      Special:

**HMIS III rating**

Health: 3<sup>□</sup>      Flammability: 1      Physical hazard: 1

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2020/11/17

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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