

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07  
Version: 1.0

Page: 1/9

### 1. Identification

**Product identifier used on the label**

**Versamid® G-491**

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

Recommended use\*: for industrial use only

\* 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:

GABRIEL PHENOXIES INC.  
808 CEL-RIVER ROAD  
ROCK HILL, SC 29730, USA

Telephone: +1 (803) 909-8450

**Emergency telephone number**

CHEMTREC: 1-800-424-9300  
OUTSIDE U.S.: 1-703-527-3887 (COLLECT)

**Other means of identification**

Synonyms: Fatty amidoamine resin mixture

### 2. Hazards Identification

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

**Classification of the product**

|                   |               |                                                |
|-------------------|---------------|------------------------------------------------|
| Skin Corr./Irrit. | 1B            | Skin corrosion/irritation                      |
| Eye Dam./Irrit.   | 1             | Serious eye damage/eye irritation              |
| Skin Sens.        | 1B            | Skin sensitization                             |
| Repr.             | 2 (fertility) | Reproductive toxicity                          |
| Aquatic Acute     | 3             | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic   | 3             | Hazardous to the aquatic environment - chronic |

**Label elements**

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07

Page: 2/9

Version: 1.0

Pictogram:



Signal Word:

Danger

Hazard Statement:

|      |                                                    |
|------|----------------------------------------------------|
| H317 | May cause an allergic skin reaction.               |
| H361 | Suspected of damaging fertility.                   |
| H314 | Causes severe skin burns and eye damage.           |
| H402 | Harmful to aquatic life.                           |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P260 | Do not breathe dust or mist.                                               |
| P273 | Avoid release to the environment.                                          |
| P201 | Obtain special instructions before use.                                    |
| 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.     |
| P264 | Wash with plenty of water and soap 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 doctor/physician.                                                                            |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P362 + P364        | Take off contaminated clothing and wash before reuse.                                                                            |

Precautionary Statements (Storage):

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

Precautionary Statements (Disposal):

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

### 3. Composition / Information on Ingredients

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

| <u>CAS Number</u> | <u>Weight %</u>   | <u>Chemical name</u>                                                            |
|-------------------|-------------------|---------------------------------------------------------------------------------|
| 80-05-7           | >= 1.0 - < 55.0%  | bisphenol A                                                                     |
| 100-51-6          | >= 5.0 - < 10.0%  | Benzyl alcohol                                                                  |
| 112-24-3          | >= 5.0 - < 15.0%  | triethylenetetramine                                                            |
| 140-31-8          | >= 5.0 - < 15.0%  | 2-piperazin-1-ylethylamine                                                      |
| 68410-23-1        | >= 25.0 - < 35.0% | Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines |

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07  
Version: 1.0

Page: 3/9

---

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing while wearing breathing protection.

##### If inhaled:

Fresh air. If adverse health effects develop seek medical attention.

##### If on skin:

After contact with skin, wash immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Immediate medical attention required.

##### If swallowed:

Do not induce vomiting. If swallowed, give at least 3-4 glasses of water. If vomiting occurs naturally, keep airway clear. Obtain medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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

Symptoms: No significant reaction of the human body to the product known.

#### 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, administer corticosteroid dose aerosol to prevent pulmonary edema.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

water spray, foam, carbon dioxide, dry powder

#### Special hazards arising from the substance or mixture

##### Advice for fire-fighters

Protective equipment for fire-fighting:

Full-body protective clothing Wear a self-contained breathing apparatus.

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### 6. Accidental release measures

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

##### Environmental precautions

Collect rinsate for disposal.

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07  
Version: 1.0

Page: 4/9

### Methods and material for containment and cleaning up

For large amounts: Flush area with dilute ( 5%) acetic acid.

Pick up spilled material and containerize for recovery or disposal. Using adequate protective equipment, add dry material to absorb spill (if large spill, first dike to contain).

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## 7. Handling and Storage

### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Prevent electrostatic charge accumulation.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly sealed. Keep container in a well-ventilated place.

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## 8. Exposure Controls/Personal Protection

### Advice on system design:

Local exhaust ventilation preferred.

### Personal protective equipment

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour respirator. Not applicable with adequate ventilation.

#### Hand protection:

Plastic gloves, Rubber gloves

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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## 9. Physical and Chemical Properties

|                      |                                     |              |
|----------------------|-------------------------------------|--------------|
| Form:                | liquid, viscous                     |              |
| Odour:               | ammonia-like                        |              |
| Colour:              | amber                               |              |
| pH value:            | No data available.                  |              |
| pour point:          | -63 °C                              |              |
| boiling temperature: | > 200 °C                            |              |
|                      | Information applies to the solvent. |              |
| Flash point:         | > 93.4 °C                           | (ASTM D3278) |
| Vapour pressure:     | No data available.                  |              |
| Density:             | approx. 0.980 g/cm3                 |              |
|                      | ( 20 °C)                            |              |
| Relative density:    | 0.980                               |              |
|                      | ( 20 °C)                            |              |

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07

Page: 5/9

Version: 1.0

---

|                            |                                                                 |                  |
|----------------------------|-----------------------------------------------------------------|------------------|
| Self-ignition temperature: | not self-igniting                                               |                  |
| Thermal decomposition:     | No decomposition if stored and handled as prescribed/indicated. |                  |
| Viscosity, dynamic:        | 530 - 870 mPa.s<br>( 25 °C)                                     | (ASTM D 1824-95) |
| Viscosity, kinematic:      | 0.54 - 0.888 mm2/s<br>( 25 °C)                                  |                  |
| Solubility in water:       | not soluble                                                     |                  |
| Solubility (qualitative):  | Slight (0.1 to 1 %)                                             |                  |

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## 10. Stability and Reactivity

### Reactivity

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

### Chemical stability

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

### Possibility of hazardous reactions

Reacts with oxidizing agents. Reacts with strong acids.

### Conditions to avoid

### Incompatible materials

acids

### Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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.

### Primary routes of entry

Inhalation.

Dermal contact.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: May cause burns to the mouth, throat, and stomach. May cause respiratory irritation.

Of moderate toxicity after short-term skin contact.

Of low toxicity after single ingestion.

#### Oral

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07

Page: 6/9

Version: 1.0

*Information on: 2-piperazin-1-ylethylamine*

*Type of value: LD50*

*Species: rat*

*Value: 1,470 mg/kg (ca. 1.500 µl/kg) (BASF-Test)*

*Type of value: LD50*

*Species: rat (male)*

*Value: approx. 2,097 mg/kg (similar to OECD guideline 401)*

*Literature data.*

*Information on: triethylenetetramine*

*Type of value: LD50*

*Species: rat*

*Value: 1,716 mg/kg*

### Irritation / corrosion

Assessment of irritating effects: Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Substance can be absorbed through the skin in harmful amounts. May cause severe damage to the eyes.

### Skin

*Information on: 2-piperazin-1-ylethylamine*

*Species: rabbit*

*Result: Corrosive.*

*Information on: triethylenetetramine*

*Species: rabbit*

*Result: Corrosive.*

### Eye

*Information on: 2-piperazin-1-ylethylamine*

*Species: rabbit*

*Result: Risk of serious damage to eyes.*

*Information on: triethylenetetramine*

*Species: rabbit*

*Result: Risk of serious damage to eyes.*

### Sensitization

Result: sensitizing

### Aspiration Hazard

No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: None known

### Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07  
Version: 1.0

Page: 7/9

### Symptoms of Exposure

No significant reaction of the human body to the product known.

## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

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

Toxicity to fish

LC50 > 1 - 10 mg/l

Aquatic invertebrates

EC50 > 0.1 - 1 mg/l

### Microorganisms/Effect on activated sludge

Toxicity to microorganisms

EC0: > 10 - 100 mg/l

### Persistence and degradability

Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components.

## 13. Disposal considerations

### Waste disposal of substance:

Must be dumped in accordance with local regulations. This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261.

## 14. Transport Information

### Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 3267

Hazard label: 8, EHSM

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN)

### Sea transport

IMDG

Hazard class: 8

Packing group: II

ID number: UN 3267

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07

Page: 8/9

Version: 1.0

Hazard label: 8, EHSM  
Marine pollutant: YES  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN)

### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 3267  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

### State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u>       |
|------------------|-------------------|----------------------------|
| PA               | 100-51-6          | Benzyl alcohol             |
|                  | 80-05-7           | bisphenol A                |
|                  | 112-24-3          | triethylenetetramine       |
|                  | 140-31-8          | 2-piperazin-1-ylethylamine |
| MA               | 100-51-6          | Benzyl alcohol             |
|                  | 80-05-7           | bisphenol A                |
|                  | 112-24-3          | triethylenetetramine       |
|                  | 140-31-8          | 2-piperazin-1-ylethylamine |
| NJ               | 80-05-7           | bisphenol A                |
|                  | 112-24-3          | triethylenetetramine       |
|                  | 140-31-8          | 2-piperazin-1-ylethylamine |

#### CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

#### NFPA Hazard codes:

Health : 2 Fire: 1 Reactivity: 1 Special:

## 16. Other Information

# Safety Data Sheet

## Versamid® G-491

Revision date : 2016/07/07  
Version: 1.0

Page: 9/9

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