SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Versamid® Standard Series

Products Included Versamid® 115; Versamid® 125; Versamid® 140; Versamid® 150; Versamid® 2540

Other means of identification

Product Code(s) V 115

UN/ID no UN3082

Synonyms Polyamide Resin Solution

Recommended use of the chemical and restrictions on use

Recommended Use Industrial use only

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address Gabriel Phenoxies Inc.
808 Cel-River Road
Rock Hill, SC 27930

Manufacturer Address Gabriel Phenoxies Inc.
808 Cel-River Road
Rock Hill, SC 27930
Contact Name: Regulatory Manager
Tel: 1-866-800-2436 (CHEM)
regulatory@gabrielchem.com
www.gabrielchem.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 Outside U.S. 1-703-527-3887 (COLLECT)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td></td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td></td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td></td>
<td>Category 1A</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Avoid release to the environment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Collect spillage

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
Toxic to aquatic life with long lasting effects
97-99.9 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Polyamide Resin Solution.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C-18-unsatd., dimers, reaction products with polyethylenepolyamines</td>
<td>68410-23-1</td>
<td>97-99.9</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Triethylene tetramine</td>
<td>112-24-3</td>
<td>0.1-3</td>
<td>*</td>
<td></td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation
Remove to fresh air. Get medical attention if symptoms occur.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.

Ingestion: Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, CO2, or foam.

Unsuitable extinguishing media: CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical: In the event of fire, cool tanks with water spray.

Explosion data

- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation.

Environmental precautions:

Environmental precautions: Keep out of waterways. Collect rinsate for disposal.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand Protection

Wear suitable gloves.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Yellow liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Ammonia-like</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>amber</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>&gt; 200 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 293.4 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>-</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 1 Pa</td>
<td>@ 20 °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>~ 0.98 g/cm³</td>
<td>@ 25 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.98</td>
<td>@ 25 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
<td>@ 20 °C</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>-</td>
<td>No decomposition if stored and handled as prescribed/indicated.</td>
</tr>
</tbody>
</table>

@: symbol indicating temperature at which property value is measured.
10. STABILITY AND REACTIVITY

Reactivity  
No information available.

Chemical stability  
Stable under normal conditions.

Possibility of hazardous reactions  
Reacts with acids and strong oxidizing agents.

Conditions to avoid  
None known based on information supplied.

Incompatible materials  
None known during use and storage if used according to instructions.

Hazardous decomposition products  
None if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information

Inhalation  
Specific test data for the substance or mixture is not available.

Eye contact  
Specific test data for the substance or mixture is not available.

Skin contact  
Specific test data for the substance or mixture is not available.

Ingestion  
Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms  
Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

Unknown acute toxicity  
97-99.9 % of the mixture consists of ingredient(s) of unknown toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene tetramine</td>
<td>= 2500 (Rat)</td>
<td>= 550 (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>112-24-3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation  
Causes skin irritation.
115
Versamid® Standard Series

Revision Date 24-Oct-2017

10. HUMAN HEALTH INFORMATION

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization
May cause an allergic skin reaction.

Germ cell mutagenicity
No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Aspiration hazard
No information available.

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene tetramine</td>
<td>2.5: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>570: 96 h Poecilia reticulata mg/L LC50</td>
<td>-</td>
<td>31.1: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td></td>
<td>20: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>2: 72 h Pimephales promelas mg/L LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>semi-static 495: 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene tetramine</td>
<td>-1.4</td>
</tr>
<tr>
<td>112-24-3</td>
<td></td>
</tr>
</tbody>
</table>

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Do not reuse empty containers.

US EPA Waste Number
D002.
14. TRANSPORT INFORMATION

DOT
UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
Packing Group III
Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29
Marine pollutant This product contains a chemical which is listed as a marine pollutant according to DOT.
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III, Marine pollutant
Emergency Response Guide Number 171

TDG
UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
Packing Group III
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III

MEX
UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
Special Provisions 274, 331, 335
Packing Group III
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III

ICAO (air)
UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
Packing Group III
Special Provisions A97, A158, A197
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III

IATA
UN/ID no UN3082
Hazard Class 9
Packing Group III
ERG Code 9L
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III

IMDG
UN/ID no UN3082
Hazard Class 9
Packing Group III
EmS-No F-A, S-F
Special Provisions 274, 335, 969
Marine pollutant This material meets the definition of a marine pollutant
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fatty Acid Amidoamine Resin, Triethylene tetramine), 9, III, Marine pollutant

RID
UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
## 15. REGULATORY INFORMATION

### International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Listed</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Listed</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Listed</td>
</tr>
<tr>
<td>ENCS</td>
<td>Listed</td>
</tr>
<tr>
<td>IECSC</td>
<td>Listed</td>
</tr>
<tr>
<td>KECL</td>
<td>Listed</td>
</tr>
<tr>
<td>PICCS</td>
<td>Listed</td>
</tr>
<tr>
<td>AICS</td>
<td>Listed</td>
</tr>
<tr>
<td>NZICS</td>
<td>Listed</td>
</tr>
<tr>
<td>TCSI</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**Legend:**
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- NZICS - New Zealand Inventory of Chemicals
- TCSI - Taiwan Chemical Substance Inventory

### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>SARA 311/312</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene tetramine</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>112-24-3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

Canadian NPRI Not Listed
WHIMIS (Canada) Class D2B: Skin/Eye Irritation reversible damage

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA
Health hazards 2  Flammability 1  Instability 0  Physical and chemical properties -

HMIS
Health hazards 2  Flammability 1  Physical hazards 0  Personal protection X

Revision Date 24-Oct-2017
Revision Note No information available.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
End of Safety Data Sheet