

SAFETY DATA SHEET



Issuing Date No data available

Revision Date 28-Jul-2016

Revision Number 1

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

Product identifier

Product Name Versamid® 253

Other means of identification

Product Code(s) V 253

UN/ID no. UN2735

Synonyms None

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)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2

Label elements

Danger

Hazard statements

Harmful if swallowed

Toxic if inhaled

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

**Appearance** Yellow liquid**Physical state** viscous, Liquid**Odor** Ammonia-like**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects

Unknown acute toxicity

58-68 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Chemical name	CAS No.	Weight-%	Trade secret
Fatty acids, C-18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	38-48	*
Benzyl alcohol	100-51-6	23-33	*
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	15-20	*
4-Nonylphenol, branched	84852-15-3	4-14	*
Triethylene tetramine	112-24-3	1-5	*

*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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical advice/attention. Washing within one minute is essential to achieve maximum effectiveness.
Skin contact	Wash off immediately with soap and plenty of water. Take off contaminated clothing. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , or foam. Water spray or fog.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
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 See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dike to collect large liquid spills.

Methods for cleaning up Pick up and transfer to properly labeled containers. Use personal protective equipment as required.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container. Keep container tightly closed.

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 No special protective equipment required.

Respiratory protection Wear a NIOSH-certified (or equivalent) respirator as necessary.

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

Physical state	viscous, Liquid
Appearance	Yellow liquid
Odor	Ammonia-like
Color	amber
Odor threshold	-

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	-	
Melting point / freezing point	-	
Boiling point / boiling range	>200 °C	Information applies to the solvent
Flash point	107.80 °C	ASTM D 3278
Evaporation rate	-	
Flammability (solid, gas)	-	Not flammable
Flammability Limit in Air		
Upper flammability limit:	-	
Lower flammability limit:	-	
Vapor pressure	-	
Vapor density	~0.990 g/cm3	(20° C)
Relative density	0.990	(20° C)
Water solubility	Moderately soluble	@ 20 °C
Solubility in other solvents	-	
Partition coefficient	-	
Autoignition temperature	-	
Decomposition temperature	-	No decomposition if stored and handled as prescribed/indicated.
Kinematic viscosity	0.505 - 2.02 mm2/s	25° C
Dynamic viscosity	500 - 2000 mPa s	(25°C) (ASTM D 1824-95)
Explosive properties	-	
Oxidizing properties	-	
<u>Other Information</u>		
Softening point	-	
Molecular weight	-	
VOC Content (%)	-	
Liquid Density	-	
Bulk density	-	

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Dermal contact.
Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye damage.

Skin contact	May cause an allergic skin reaction. Corrosive. Can cause chemical burns.
Ingestion	Can burn mouth, throat, and stomach.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity**Acute toxicity**

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

ATEmix (oral)	1,246.00
ATEmix (dermal)	2,007.00
ATEmix (inhalation-gas)	924.00
ATEmix (inhalation-dust/mist)	1.98

Unknown acute toxicity 58-68 % of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
4-Nonylphenol, branched 84852-15-3	= 1300 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	-
Triethylene tetramine 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg (Rabbit)	-

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

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause respiratory irritation.
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

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	23: 48 h water flea mg/L EC50
4-Nonylphenol, branched 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella	0.1351: 96 h Lepomis macrochirus mg/L LC50	-	0.14: 48 h Daphnia magna mg/L EC50

	subcapitata mg/L EC50 static 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50	flow-through 0.135: 96 h Pimephales promelas mg/L LC50 flow-through		
Triethylene tetramine 112-24-3	2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	570: 96 h Poecilia reticulata mg/L LC50 semi-static 495: 96 h Pimephales promelas mg/L LC50	-	31.1: 48 h Daphnia magna mg/L EC50

Persistence and degradability No information available.

Bioaccumulation See below.

Chemical name	Partition coefficient
Benzyl alcohol 100-51-6	1.1
Triethylene tetramine 112-24-3	-1.4

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.

14. TRANSPORT INFORMATION

DOT

UN/ID no. UN2735
 Proper shipping name Amines, liquid, corrosive, n.o.s.
 Hazard Class 8
 Packing Group II
 Special Provisions B2, IB2, T11, TP1, TP27
 Description UN2735, Amines, liquid, corrosive, n.o.s., 8, II
 Emergency Response Guide Number 153

TDG

UN/ID no. UN2735
 Proper shipping name Amines, liquid, corrosive, n.o.s.
 Hazard Class 8
 Packing Group II

Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II
<u>MEX</u>	
UN/ID no.	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Special Provisions	274
Packing Group	II
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II
<u>ICAO (air)</u>	
UN/ID no.	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	II
Special Provisions	A3
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II
<u>IATA</u>	
UN/ID no.	UN2735
Hazard Class	8
Packing Group	II
ERG Code	8L
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II
<u>IMDG</u>	
UN/ID no.	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	II
EmS-No.	F-A, S-B
Special Provisions	274
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched), 8, II, Marine pollutant
<u>RID</u>	
UN/ID no.	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	II
Classification code	C7
Special Provisions	274
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II, Environmentally Hazardous
<u>ADR</u>	
UN/ID no.	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	II
Classification code	C7
Tunnel restriction code	(E)
Special Provisions	274
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II, Environmentally Hazardous
Labels	8
<u>ADN</u>	
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8

Packing Group	II
Classification code	C7
Special Provisions	274
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4-Nonylphenol, branched, Triethylene tetramine), 8, II, Environmentally Hazardous
Hazard label(s)	8
Limited quantity (LQ)	1 L
Equipment Requirements	PP, EP

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZICS	Complies
TCSI	Complies

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
4-Nonylphenol, branched - 84852-15-3	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Benzyl alcohol 100-51-6	-	X	X
Triethylene tetramine 112-24-3	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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
*Chronic Hazard Star Legend * = Chronic Health Hazard*

Revision Date 28-Jul-2016

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