



Safety Data Sheet

Issue Date: August 31, 2015

1. IDENTIFICATION

Product Identifier

Product Name Mar-V-Cide II Germicidal Cleaner

Other means of identification

SDS # #003E

Recommended use of the chemical and restrictions on use

Recommended Use A concentrated germicidal cleaner formulated with synthetic phenols, anionic surfactants and alcohol.

Details of the supplier of the safety data sheet

Supplier Address

William Marvy Company, Inc.
1540 St. Clair Avenue
St. Paul, MN 55105

Emergency Telephone Number

Company Phone Number 651-698-0726
Emergency Telephone (24 hr) 800-255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Flammable Liquids	Category 3

Signal Word

Danger

Hazard Statements

Harmful if swallowed - Harmful if inhaled - Causes severe skin burns and eye damage - May cause cancer
May damage fertility or the unborn child
Flammable liquid and vapor



This product is a U.S. EPA Registered pesticide, EPA Reg. No. 211-25-8296, and is subject to specific labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products.

Appearance Dark purple liquid**Physical State** Liquid**Odor** Lavender phenolic**Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions on label 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.

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

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 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

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

Rinse mouth - Do not induce vomiting

Note to physician:

IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction**Precautionary Statements - Storage**

Store locked up – KEEP OUT OF REACH OF CHILDREN

Store in a well-ventilated place

Precautionary Statements - Disposal

Clean container promptly after emptying. Do not reuse or refill this container. Puncture and dispose of in a sanitary landfill, or by incineration. Offer for recycling, if available.

Other Hazards

Toxic to aquatic life with long lasting effects

Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl alcohol	67-63-0	5-10
Ortho-benzyl-para-Chlorophenol	120-32-1	5-10
O-phenylphenol	90-43-7	5-10
Sodium Nitrite	7632-00-0	1-5
Para-tertiary Amylphenol	80-46-6	1-5
Potassium hydroxide	1310-58-3	1-5
Borax	1303-96-4	<1

4. FIRST-AID MEASURES**First Aid Measures****General Advice**

If exposed or concerned: Get medical advice/attention.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact

Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

Inhalation

Remove to fresh air. Call a physician if you feel unwell.

Ingestion

Rinse mouth. If patient is conscious and alert, dilute by drinking milk, egg whites or large quantities of water. Do not induce vomiting without medical advice. Call a poison center or doctor/physician if you feel unwell.

Most important symptoms and effects**Symptoms**

May cause eye burns and permanent eye damage. May cause redness, pain, and severe skin burns. May cause nose, throat, and lung irritation. If swallowed: Drowsiness, irregular pulse, loss of consciousness. Possible gastrointestinal irritation or disturbance such as cramps and stomach pains.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂). Water. Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic.

Hazardous Combustion Products

Phenolic compounds. Carbon monoxide. Carbon dioxide (CO₂). Chlorine gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protective equipment as required.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This product is toxic to fish and aquatic organisms.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Obtain special instructions before use. **Do not handle until all safety precautions have been read and understood.** Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Wash thoroughly after handling. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

KEEP OUT OF REACH OF CHILDREN

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Do not contaminate food or feed stuffs. Do not reuse container.

Incompatible Materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Borax 1303-96-4	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction	(vacated) TWA: 10 mg/m ³	TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use Safety Glasses when diluting concentrates or when splashing or spraying of diluted product into the eyes is likely.
Skin and Body Protection	Gloves are required for exposure to the concentrate when diluting or for long exposures to end-use dilutions. Persons sensitive to cleaning chemicals should always wear gloves.
Respiratory Protection	General ventilation is normally adequate. Use appropriate respiratory protection if application method produces a fine spray or mists.
General Hygiene Considerations	Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep away from food and drink. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Lavender phenolic
Appearance	Clear dark purple liquid	Odor Threshold	Not determined
Color	Dark purple		
Property	Values	Remarks • Method	
pH	12.65-12.8 (concentrate) 8.80-11.0 (1:256 dilution)		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	46 °C / 115 °F	SETA	
Evaporation Rate	Not established		
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not established		
Vapor Density	Not established		
Specific Gravity	1.09-1.11	(1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization	Hazardous polymerization does not occur.
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Conditions to Avoid

Avoid high temperatures. Heat, flames and sparks.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Combustion products may include phenolics, carbon monoxide, carbon dioxide, and chlorine.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Eye Contact** Causes serious eye damage.**Skin Contact** Causes severe skin burns.**Inhalation** Harmful if inhaled.**Ingestion** Harmful if swallowed.**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12870 mg/kg (Rabbit)	= 72.6 mg/L (Rat) 4 h
EDTA 60-00-4	= 1700 mg/kg (Rat)	-	-
Ortho-benzyl-para-Chlorophenol 120-32-1	= 1700 mg/kg (Rat)	-	-
O-phenylphenol 90-43-7	= 1049 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.949 mg/L (Rat) 1 h
Sodium Nitrite 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h
Para-tertiary Amylphenol 80-46-6	= 1830 mg/kg (Rat)	= 2 g/kg (Rabbit)	-
Potassium hydroxide 1310-58-3	= 214 mg/kg (Rat)	-	-
Sodium Sulfite 7757-83-7	= 820 mg/kg (Rat)	-	> 5.5 mg/L (Rat) 4 h > 22 mg/L (Rat) 1 h
Borax 1303-96-4	= 2660 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects**Symptoms** Please see section 4 of this SDS for symptoms.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Carcinogenicity Isopropyl Alcohol (IPA) is listed as an IARC Monograph Group 3 chemical. However, IARC Group 3 chemicals are "not classifiable as human carcinogens". IPA is classified as an IARC Group 1 chemical ONLY when manufactured by the strong-acid process. The IPA used in this product is NOT manufactured by the strong-acid process and is therefore not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		X
O-phenylphenol 90-43-7		Group 3		
Sodium Nitrite 7632-00-0		Group 2A		X

Legend**IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity May damage fertility or the unborn child.**Numerical measures of toxicity**

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50
EDTA 60-00-4	1.01: 72 h Desmodesmus subspicatus mg/L EC50	34 - 62: 96 h Lepomis macrochirus mg/L LC50 static 44.2 - 76.5: 96 h Pimephales promelas mg/L LC50 static		113: 48 h Daphnia magna mg/L EC50 Static
O-phenylphenol 90-43-7	0.85: 72 h Desmodesmus subspicatus mg/L EC50	3.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.74: 96 h Lepomis macrochirus mg/L LC50 2.75: 96 h Oncorhynchus mykiss mg/L LC50 5.8: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 2.05 mg/L 5 min	1 - 2.5: 48 h Daphnia magna mg/L EC50 Static
Sodium Nitrite 7632-00-0		0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 2.3: 96 h Pimephales promelas mg/L LC50 flow-through 20: 96 h Pimephales promelas mg/L LC50 static		
Para-tertiary Amylphenol 80-46-6		1.87 - 3.34: 96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Cyprinus carpio mg/L LC50		
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium Sulfite 7757-83-7		220 - 460: 96 h Leuciscus idus mg/L LC50 static		330: 24 h Psammechinus miliaris mg/L LC50

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Isopropyl alcohol 67-63-0	0.05
O-phenylphenol 90-43-7	3.18
Sodium Nitrite 7632-00-0	-3.7
Potassium hydroxide 1310-58-3	0.83

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Not Applicable

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic Ignitable
Sodium Nitrite 7632-00-0	Toxic Ignitable Reactive
Potassium hydroxide 1310-58-3	Toxic Corrosive
Borax 1303-96-4	Toxic

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN2924
 Proper Shipping Name 16 oz. — Limited Quantity
 Hazard Class 3
 Subsidiary Hazard Class 8
 Packing Group III

IATA

UN/ID No UN2924
 Proper Shipping Name 16 oz. — Limited Quantity
 Hazard Class 3
 Subsidiary Hazard Class 8
 Packing Group III

IMDG

UN/ID No UN2924
 Proper Shipping Name 16 oz. — Limited Quantity
 Hazard Class 3
 Subsidiary Hazard Class 8
 Packing Group III

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Nitrite 7632-00-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	5-10	1.0
Ortho-benzyl-para-Chlorophenol - 120-32-1	120-32-1	5-10	0.1
O-phenylphenol - 90-43-7	90-43-7	5-10	1.0
Sodium Nitrite - 7632-00-0	7632-00-0	1-5	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ortho-benzyl-para-Chlorophenol 120-32-1 (5-10)		X		
Sodium Nitrite 7632-00-0 (1-5)	100 lb			X

003E Mar-V-Cide II Germicidal Cleaner

Potassium hydroxide 1310-58-3 (1-5)	1000 lb			X
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US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
O-phenylphenol - 90-43-7	Carcinogen

15. REGULATORY INFORMATION (CONT.)

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X	X	X
EDTA 60-00-4	X	X	X
Ortho-benzyl-para-Chlorophenol 120-32-1	X		X
O-phenylphenol 90-43-7	X	X	X
Sodium Nitrite 7632-00-0	X	X	X
Para-tertiary Amylphenol 80-46-6		X	X
Potassium hydroxide 1310-58-3	X	X	X
Borax 1303-96-4	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
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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 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