

**MATERIAL SAFETY DATA SHEET**

**SECTION ONE - PRODUCT DESCRIPTION**

Product Name: Mar-V-Cide® Disinfectant, Fungicide, Germicide, Virucide  
 Description: Disinfectant and Germicide  
 MSDS Number: 001a

**HMIS HAZARDOUS RATING  
 NFPA 704 HAZARD RATING**

4 - Extreme 3 - High 2 - Moderate 1 - Slight  
 0 - Insignificant B - Eye & Hand Protection

HEALTH	(Blue)	1
FLAMIBILITY	(Red)	1
REACTIVITY	(Yellow)	0
PERSONAL PROTECTION	(White)	B

**S.A.R.A. INFORMATION:**

HAZARDS: Fire: NO Pressure: NO Reactivity: NO Acute: NO Chronic: NO  
 PHYSICAL DATA: Mixture: YES Pure: NO Solid: NO Liquid: YES Gas: NO

**SECTION TWO - INGREDIENTS**

<u>CHEMICAL NAME</u>	<u>APPROXIMATE WEIGHT %</u>
n-Alkyl dimethyl benzyl ammonium chloride ( CAS No. 68424-85-1 )	10.0 %
Isopropanol ( CAS No. 67-63-0 )	
Sodium Nitrite ( CAS No. 7632-00-0 )	

**SECTION THREE - PHYSICAL AND CHEMICAL DATA**

	<b>Concentrate / Dilution</b>	
Vapor Density (Air-1): 2.1		APPEARANACE AND ODOR:
Specific Gravity (Water-1): 2.17 / .96		Blue-green-black / Light blue
Melting Point, Deg. F: 127 / 538		Medicinal Alcoholic / Almost no odor - Odorless
Evaporation Rate (Buty Acetate-1): 3 / 1		Water Solubility: 100 %
Boiling Point, Deg. F: 205 / 575		Vapor Pressure, MM HG/20 Deg. C: / NIL

**SECTION FOUR - EMERGENCY AND FIRST AID PROCEDURES**

<b>FIRST AID</b>	
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for further treatment advice.
If in eyes:	Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
If swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact CHEM-TEL at 1-800-255-3924 for emergency medical treatment.	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**SECTION FIVE - FIRE AND EXPLOSIVE DATA**

FLASH POINT: OVER 200 Deg. F.  
 EXPOSURE LIMITS: Lower and upper not determined  
 EXTINGUISHING MEDIA: All extinguishing media are suitable.  
 SPECIAL FIRE FIGHTING PROCEDURES: Must wear MSHA/NIOSH approved self-contained breathing apparatus and protective clothing.

**SECTION SIX - ACCIDENTAL RELEASE**

SPILL AND LEAK PROCEDURE: Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed in some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.

**SECTION SEVEN - HANDLING AND STORAGE**

Store in original container or approved container. Do not contaminate water and food.

**SECTION EIGHT - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

VENTILATION TYPE: Mechanical (Explosion proof). EYE PROTECTION: Splash-proof safety goggles.  
RESPIRATORY PROTECTION: None required if good ventilation is maintained. If good ventilation is not present, wear an approved respirator for protection against vapors. PROTECTIVE GLOVES: Rubber or Neoprene.  
OTHER EQUIPMENT: Impervious apron, eyewash facility, emergency shower, face shield.

**SECTION NINE - HEALTH HAZARDS**

INHALATION: Irritation of mucous membrane can be caused by vapors or mists.  
EYE CONTACT: Corrosive. Severe eye damage can result from direct contact. SKIN CONTACT: Severe irritation.  
INGESTION: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

**SECTION TEN - STABILITY AND REACTIVITY INFORMATION**

STABILITY: Stable CONDITIONS TO AVOID: N/A  
INCOMPATIBILITY: Strong oxidizers or reducing agents. HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: Mixing with strong oxidizers or reducing agents.

**SECTION ELEVEN - TOXICOLOGICAL INFORMATION**

ACUTE ORAL: ND PRIMARY SKIN: Severe irritation  
ACUTE DERMAL: ND PRIMARY EYE: Corrosive

**SECTION TWELVE - CONTAINER DISPOSAL**

Do not reuse empty container. Wrap container and put into trash.

**SECTION THIRTEEN - TRANSPORTATION INFORMATION**

OSHA and DOT HAZARD CLASS: NOT REGULATED -- NON HAZARDOUS

**SECTION FOURTEEN - MISCELLANEOUS AND REGULATORY INFORMATION**

FEDERAL LEVEL REGULATIONS: This is an EPA registered pesticide. This material can only be used commercially in the EPA registered application(s) noted on the product label.

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS: Found on the US EPA TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (800) 424-8802 in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQS) listed in 40 CFR 302.4:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
None Known		

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization Act of 1986) - this act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
None Known		

SARA Title III, Sections 311/312 - This act requires reporting under the Community Right-To-Know provision due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
None Known		

SARA Title 313 - This act requires submission and annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
None Known		

WHMIS CONTROLLED PRODUCT CLASSIFICATION: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

CANADA INVENTORY (DSL): All of the components of this product are listed on the DSL.

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond this company's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising out of the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created or inferred from any statement or omission in this MSDS. Various government agencies (e.g. DOT, EPA and FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.