# Safety Data Sheet

**Issue date** 12-May-2015 **Version** 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product Identifier**

**Product name** MAR-V-CIDE SPRAY DISINFECTANT
**Chemical name** 7-9761-1

**Other means of identification**

**Product code** FG 431-2253-3
**Synonyms** Disinfectant Spray
**Registration number(s)** 498-179-08296

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

**Recommended Use** For disinfection of hard, non-porous, inanimate surfaces.
**Uses advised against** Do not spray on varnished, painted or plastic surfaces.

**Details of the supplier of the safety data sheet**

**Supplier Address**
William Marvy Company, Inc.
1540 St. Clair Avenue
St. Paul, MN 55105
651-698-0726

**Emergency Telephone Number**

**Company Phone Number** 651-698-0726
**24 Hour Emergency Phone Number** 1-800-255-3924

## 2. Hazards Identification

**Classification**

| | |
|---|---|
| Serious eye damage/eye irritation | Category 2A |
| FLAMMABLE AEROSOLS | Category 2 |
| Gases Under Pressure | liquefied gas |

**Label Elements**

**EMERGENCY OVERVIEW**

**Warning**

**hazard statements**
Causes serious eye irritation
Flammable Aerosol
Contains gas under pressure; may explode if heated

**Appearance** Hazy, yellow liquid **Physical State** Aerosol **Odor** Perfumed.

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves, protective clothing, eye protection and face protection.
Keep away from heat, sparks, open flames and hot surfaces. — No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

**Precautionary Statements - Storage**
Protect from sunlight. Store in a well-ventilated place
Do not expose to temperatures exceeding 50°C (122 °F)

**Hazards not otherwise classified (HNOC)**
**Other Information**
• Toxic to aquatic life with long lasting effects
0.69% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

**Synonyms** Disinfectant Spray.
**Chemical Family** MIXTURES.
**Formula** 7-9761-1
**Chemical nature** Aqueous solution of alcohol and other active ingredients.

| Chemical name | CAS No | weight-% | Trade secret |
|---|---|---|---|
| Water | 7732-18-5 | 45-50 | * |
| Ethyl alcohol | 64-17-5 | 30-35 | * |
| N-Butane | 106-97-8 | 10-15 | * |
| Propane | 74-98-6 | 1-5 | * |

Chemical Additions **See label for active ingredients information.**

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

## 4. First aid measures

**FIRST AID MEASURES**

**Eye Contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact** Wash with soap and water. If irritation develops, consult a physician .

**inhalation** If overcome by vapor, move person to fresh air.

**INGESTION** Ingestion from an aerosol product is unlikely to occur.

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

**Symptoms** Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** None needed.

## 5. Fire-fighting measures

**Suitable extinguishing media**
Dry chemical, CO2 or water spray.

**Unsuitable extinguishing media** Use water spray or fog; do not use straight streams.

**Specific hazards arising from the chemical**
Containers are under pressure. Temperatures above 130 °F may cause cans to burst.

**Hazardous combustion products** Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

**Explosion data**
**Sensitivity to Mechanical Impact** Contents under pressure, keep away from heat and open flame.
**Sensitivity to Static Discharge** Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Protective equipment and precautions for firefighters**
Use personal protective equipment as required.

## 6. Accidental release measures

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

**Personal precautions** CONTENTS UNDER PRESSURE. Do not puncture or incinerate cans.

**Other Information** Keep out of reach of children.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

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

**Methods for Containment** Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

**Methods for cleaning up** Clean contaminated surface thoroughly.

## 7. Handling and Storage

**Precautions for safe handling**

**Advice on safe handling** Avoid getting spray into eyes. Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a cool, dry place away from heat and open flame. Avoid storing at below-freezing temperatures. **AEROSOL STORAGE LEVEL I (NFPA-30B) .**

**Incompatible Materials** Avoid heat, open flame and contact with strong oxidizers.

## 8. Exposure Controls/Personal Protection

**Control parameters**

**Exposure guidelines** See occupational exposure limits listed below.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ethyl alcohol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$<br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m$^3$ | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ |

| | | | |
|---|---|---|---|
| N-Butane<br>106-97-8 | STEL: 1000 ppm | (vacated) TWA: 800 ppm<br>(vacated) TWA: 1900 mg/m³ | TWA: 800 ppm<br>TWA: 1900 mg/m³ |
| Propane<br>74-98-6 | TWA: 1000 ppm | TWA: 1000 ppm<br>TWA: 1800 mg/m³<br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1800 mg/m³ | IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m³ |

**Appropriate engineering controls**

**Engineering controls** Use with adequate general or local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Conventional eyeglasses to guard against splashing.

**Skin and Body Protection** Household type gloves, if desired.

**Respiratory protection** None required if used in a well-ventilated area .

**General hygiene considerations** None required.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Aerosol | | |
| **Appearance** | Hazy, yellow liquid | **Odor** | Perfumed. |
| **Color** | clear | **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | 10.5 +/- 0.5 | No information available |
| **Melting point/freezing point** | NA | No information available |
| **Boiling point/boiling range** | 212 °F/100 °C | No information available |
| **Flash Point** | Not avaliable. This is an aerosol product for which Flame Projection is 6-8 inches without flashback. Temperatures above 120 F may cause cans to burst. | No information available |
| **Evaporation Rate** | Faster than butyl acetate | No information available |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limits in Air** | | No information available |
| **Upper flammability limits** | Not available | |
| **Lower Flammability Limit** | Not available | |
| **Vapor pressure** | Not available | No information available |
| **Vapor Density** | | No information available |
| **Specific gravity** | 0.92 concentrate | No information available |
| **Water solubility** | completely soluble | No information available |
| **Solubility in other solvents** | | No information available |
| **Partition coefficient** | | No information available |
| **Autoignition Temperature** | | No information available |
| **Decomposition temperature** | | No information available |
| **Kinematic viscosity** | | No information available |
| **Dynamic viscosity** | | No information available |
| **Explosive properties** | No information available | |
| **Oxidizing properties** | No information available | |

**Other Information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC content (%)** | 51.32% |
| **Density** | No information available |
| **Bulk Density** | 8.33 Lb/gal |

## 10. Stability and Reactivity

**Reactivity**
Not applicable
no data available

**Chemical stability**
Stable.
**Possibility of hazardous reactions**
Temperatures above 130 °F may cause cans to burst with force.
**hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Temperatures above 122 °F (50 °C).
**Incompatible Materials**
Avoid heat, open flame and contact with strong oxidizers.
**Hazardous decomposition products**
Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

## 11. Toxicological Information

**Information on likely routes of exposure**

**Product Information** Acute: Prolonged inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea. Prolonged and repeated contact with skin may cause irritation and reddening. Contact with eyes causes irritation.

**inhalation** See data below.

**Eye Contact** no data available.

**Skin contact** no data available.

**INGESTION** This is an aerosol product, ingestion is unlikely to occur. MAY BE HARMFUL IF SWALLOWED.

| Chemical name | Oral LD50 | dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Water<br>7732-18-5 | > 90 mL/kg ( Rat ) | - | - |
| Ethyl alcohol<br>64-17-5 | = 7060 mg/kg ( Rat ) | - | = 124.7 mg/L ( Rat ) 4 h |
| N-Butane<br>106-97-8 | - | - | = 658 g/m³ ( Rat ) 4 h |
| Propane<br>74-98-6 | - | - | = 658 mg/L ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** See information above.

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

**sensitization** No information available.
**Germ Cell Mutagenicity** No information available.
**carcinogenicity** Not known chronic effects based on available information.

**Reproductive Toxicity** No information available.
**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity** 0.69% of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (inhalation-gas)** 10000000

**ATEmix (inhalation-vapor)** 16447.4 mg/l

## 12. Ecological Information

**ecotoxicity**

20.99% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name | Algae/aquatic plants | Fish | Toxicity to Microorganisms | Crustacea |
|---|---|---|---|---|
| Ethyl alcohol 64-17-5 | | 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through | EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min | 9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50 |

**Persistence and degradability**

No information available.

**Bioaccumulation**

See information below.

| Chemical name | Partition coefficient |
|---|---|
| Ethyl alcohol 64-17-5 | -0.32 |
| N-Butane 106-97-8 | 2.89 |
| Propane 74-98-6 | 2.3 |

**Other adverse effects** No information available

## 13. Disposal Considerations

**Waste treatment methods**

**Disposal of wastes** Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

**Contaminated packaging** Pressurized container: Do not pierce or burn, even after use.

| Chemical name | California Hazardous Waste Status |
|---|---|
| Ethyl alcohol 64-17-5 | Toxic Ignitable |

## 14. Transport Information

**Note:** The following information is for aerosols with less than 17 oz net weight when shipped by road.

**DOT** Consumer Commodity

**UN/ID no** Limited Quantity

**Proper Shipping Name** Consumer Commodity

**Hazard Class** ORM-D

**ICAO (air)** The following information is for aerosols less than 17 oz net weight when shipped by air.

| | |
|---|---|
| **UN/ID no** | ID8000 |
| **Proper Shipping Name** | Consumer Commodity or Limited Quantity |
| **Hazard Class** | 9 (packaging instructions Y963) |

## 15. Regulatory information

### International Inventories

**TSCA** All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Subtances Control Act (TSCA) Chemical Substance Inventory.

**DSL** All ingredients are listed or are excluded from listing on the DSL.

### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

### US Federal Regulations

**SARA 313**

This product does not contain toxic chemicals (above the de minimis level) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | yes |
| **Chronic Health Hazard** | No |
| **Fire Hazard** | yes |
| **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**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Water<br>7732-18-5 | | | X |
| Ethyl alcohol<br>64-17-5 | X | X | X |
| N-Butane<br>106-97-8 | X | X | X |
| Propane<br>74-98-6 | X | X | X |

**U.S. EPA Label information**

**EPA Pesticide registration number** 498-179-08296

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION: May cause eye irritation. Avoid contact with the eyes and skin. Avoid breathing of spray mist. Avoid contamination of foodstuff.

## 16. Other information

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 1 | **Flammability** 1 | **Instability** 1 | **Physical and chemical properties** Not applicable |
| **HMIS** | **Health Hazards** 1 | **Flammability** 2 | **Physical Hazards** 1 | **Personal Protection** A - Eyes protection |

**Prepared by** Regulatory Department
**Issue date** 12-May-2015
**Revision note**
**This SDS supersedes a previous MSDS dated January 17, 2011.**

**Disclaimer**

**The information provided in this Material 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**