

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Matguard Surface Disinfectant Solution

128 Ounce

CAS # Mixture

Product use Disinfectant

Manufacturer

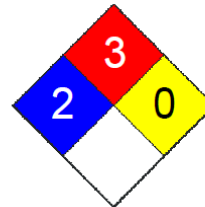
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2. Hazards Identification

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/	2
Flammability		3
Physical Hazard		0
Personal Protection		A



Emergency overview	DANGER Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Containers may explode when heated. CAUSES EYE IRRITATION.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Causes irritation.
Skin	Non-irritating based on test data. Not a skin sensitizer based on test data.
Inhalation	Not a normal route of harmful exposure.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Eyes.
Chronic effects	None known.
Signs and symptoms	Irritating to eyes.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Isopropanol	67-63-0	60 - 100
Composition comments	Not applicable to DIN products. Refer to product label for active ingredient content.	

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	In case of skin irritation, discontinue use of product.
Inhalation	Not a normal route of harmful exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	Symptoms may be delayed.

5. Fire Fighting Measures

Flammable properties	Flammable by WHMIS/OSHA criteria. Vapors may travel to a source of ignition and flash back. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide. Alcohol foam. Dry chemical. Foam.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm OSHA-PEL TWA: 400 ppm
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	Not normally required.
Hand protection	Not required.
Skin and body protection	As required by employer code.
Respiratory protection	Not normally required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

9. Physical & Chemical Properties

Appearance	Clear.
Color	Colorless
Form	Spray
Odor	Alcohol
Odor threshold	Not available
Physical state	Liquid
pH	6.45
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	20 °C (68.00 °F) ASTM
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.86
Octanol/water coefficient	Not available
Solubility (H ₂ O)	Not available
Auto-ignition temperature	Not available
Viscosity	Not available
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers. Soft metals.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 5000 mg/kg, Rat, Oral Acute LD50: 2000 mg/kg, Rat, Dermal
Component analysis - LC50	
Ingredient(s)	LC50
Isopropanol	16970 mg/l/4h rat
Component analysis - Oral LD50	
Ingredient(s)	LD50
Isopropanol	4396 mg/kg rat
Effects of acute exposure	
Eye	Causes irritation.
Skin	Non-irritating based on test data. Not a skin sensitizer based on test data.
Inhalation	Not a normal route of harmful exposure.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.	
ACGIH - Threshold Limits Values - Carcinogens		
Isopropanol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
IARC - Group 3 (Not Classifiable)		
Isopropanol	67-63-0	Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977]
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.	
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.	
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.	

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae Data		
Isopropanol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Isopropanol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
Ecotoxicity - Microtox Data		
Isopropanol	67-63-0	5 Min EC50 Photobacterium phosphoreum: 35390 mg/L
Ecotoxicity - Water Flea Data		
Isopropanol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Department of Transportation (DOT)	Consumer commodity ORM-D
Transportation of Dangerous Goods (TDG)	Consumer commodity

15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
Canada - WHMIS - Ingredient Disclosure List		
Isopropanol	67-63-0	1 %
US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.	
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
Isopropanol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

WHMIS classification Exempt - Registered product - (DIN 02236780)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Isopropanol 67-63-0 Present

U.S. - Massachusetts - Right To Know List

Isopropanol 67-63-0 Present

U.S. - Minnesota - Hazardous Substance List

Isopropanol 67-63-0 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Isopropanol 67-63-0 sn 1076; sn 2381 (strong-acid process manufacture)

U.S. - Pennsylvania - RTK (Right to Know) List

Isopropanol 67-63-0 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Isopropanol 67-63-0 Toxic; Flammable

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue Date	24-Feb- 2020
Effective Date	01-Feb- 2020
Expiry Date	01-Feb- 2023
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