



SAFETY DATA SHEET

Product: MARC 350 DISINFECTANT WIPES

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 350 DISINFECTANT WIPES

SDS DATE: 08/31/17

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
PHONE: 402-564-7104 FAX: 402-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Hard surface cleaner and disinfecting wipes.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable solid.



SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **WARNING:** Flammable liquid and vapor.

PRECAUTIONARY STATEMENTS: If medical advice is needed, have product container or label at hand. Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/light/equipment. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. **IF ON SKIN (or hair):** Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. **IN CASE OF FIRE:** Use agents recommended in Section 5 for extinction. Store in a well ventilated place. Keep container tightly closed. Dispose of contents and container as instructed in Section 13.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>WT. %</u>
Isopropanol	67-63-0	41.58%
Glycol Ether	Trade Secret	1% - 5%
Aliphatic Polymer	Trade Secret	1% - 5%
Alkyl (C12, C14, C16) Dimethyl Benzyl Ammonium Chloride	68391-01-5	0.12%
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride	85409-23-0	0.12%

SECTION 4: FIRST AID MEASURES

EYES: Protect unexposed eye. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical assistance.

SKIN: Wash affected area with soap and water gently for 15-20 minutes. Seek medical attention if irritation persists or if concerned.

INGESTION: Dilute mouth with water or milk after rinsing. Immediately get medical assistance. **INDUCE VOMITING IF DIRECTED TO DO SO BY MEDICAL PERSONNEL.**

INHALATION: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.



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MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Shortness of breath, irritation, nausea, headache.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

If seeking medical attention, provide SDS document to physician.

GENERAL INFORMATION:

Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Water spray can be used to dilute spills to nonflammable mixtures.

UNSUITABLE EXTINGUISHING MEDIA:

N/A

SPECIAL FIRE FIGHTING PROCEDURES/ PROTECTIVE EQUIPMENT:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Do not inhale gases, fumes, dust, mist, vapor, and aerosols.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic oxides of carbon, acrid and irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ PROTECTIVE EQUIPMENT:

Keep away from ignition sources. Protect from heat.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Use spark-proof tools and explosion-proof equipment. Have fire extinguishing agent available in case of fire. Always obey local regulations. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. Remove all sources of ignition. Contain spill then collect. Do not flush to sewer. Absorb with a noncombustible absorbent material such as sand or earth and containerize for disposal. Refer to Section 13. Ventilate area of spill.

ENVIRONMENTAL PRECAUTIONS: Prevent from reaching drains, sewer or waterway. Should not be released into environment.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING:

Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Empty containers retain product residue and can be dangerous.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool location. Store securely in flammable storage area away from sources of ignition. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Keep container tightly sealed. Protect from freezing and physical damage. Store away from incompatible materials. See Section 10.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: 67-63-0, Isopropanol, ACGIH: 400 ppm STEL; 200 ppm TWA
67-63-0, Isopropanol, NIOSH: 500 ppm STEL; 1225 mg/m³ STEL
67-63-0, Isopropanol, NIOSH: 400 ppm TWA; 980 mg/m³ TWA

**ENGINEERING CONTROLS/
VENTILATION :** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

RESPIRATORY PROTECTION: Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.

EYE/FACE PROTECTION: Safety glasses with side shields or goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear protective gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Emergency eye wash fountains and safety showers must be available in the immediate vicinity of use or handling.

WORK HYGIENIC PRACTICES: Always observe good personal hygiene measures, such as washing hands before breaks and at the end of work. Avoid contact with eyes and skin. Perform routine housekeeping. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-(PHYSICAL, STATE, COLOR):	Clear, Colorless Liquid	EXPLOSIVELIMITLOWER: EXPLOSIVE LIMIT UPPER:	2% 12.7%
ODOR:	Alcohol	VAPOR PRESSURE (mmHg):	Approx. 33 at 20°C
ODOR THRESHOLD:	Not available.	VAPOR DENSITY (AIR = 1):	Not available.
pH-value:	Not available.	RELATIVE DENSITY:	0.88 g/mL at 25°C
MELTING/FREEZING POINT	Below – 88°C	SOLUBILITIES:	Infinite solubility
BOILING POINT/ BOILING RANGE:	Approx 82°C	PARTITION COEFFICIENT (N-OCTANOL/WATER):	Log Pow: 0.05
FLASH POINT (closed cup):	82°F/27°C	AUTO/SELF-IGNITION TEMPERATURE:	425.0°C
EVAPORATION RATE:	3.0	DECOMPOSITION TEMPERATURE:	Not available.
FLAMMABILITY (solid, gaseous):	Flammable	VISCOSITY:	a.Kinematic: Not Available. b.Dynamic: Not Available.
DENSITY:	Not Available.		

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None under normal processing. Test small inconspicuous area.

CHEMICAL STABILITY: No decomposition if used and stored according to specifications. Stable under normal conditions.

POSSIBLE HAZARDOUS REACTIONS: Flammable. Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

CONDITIONS TO AVOID: Incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, heat, sparks, open flames. Will attack some forms of rubber, plastics and coatings. May react with metallic aluminum and generate hydrogen gas.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Toxic oxides of carbon, acrid and irritating fumes. .



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HAZARDOUS POLYMERIZATION: NA

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

ORAL	67-63-0	LD50 Rat – 5,045 mg/kg
INHALATION:	67-63-0	LC50 Rat – 8 h – 16000 ppm
DERMAL:	67-63-0	LD50 Rabbit – 12,800 mg/kg

CHRONIC TOXICITY: No additional information.

CORROSION IRRITATION: No additional information.

SENSITIZATION:	No additional information.
SINGLE TARGET ORGAN (STOT):	No additional information.
NUMERICAL MEASURES:	No additional information.
CARCINOGENICITY:	No additional information.
MUTAGENICITY:	No additional information.
REPRODUCTIVE TOXICITY:	No additional information.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

TOXICITY TO FISH LC50 – pimephales promelas (fathead minnow) – 9,640.00 mg/l – 96 h: 67-63-0

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES EC50 – Daphnia magna (Water flea) – 5,102.00 mg/l – 24 h: 67-63-0

TOXICITY TO ALGAE EC50 – Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l – 72 h EC50 – Algae – > 1,000.00 mg/l – 24 h: : 67-63-0

PERSISTENCE AND DEGRADABILITY:

BIOACCUMULATIVE POTENTIAL:

MOBILITY IN SOIL: Aqueous solution has high mobility in soil.

OTHER ADVERSE EFFECTS: Isopropanol has acute toxicity with effects of death in animals and low growth rates and death in plants. Chronic toxic effects, may be shortened life span, lower fertility, reproductive problems, and changes in appearance and/or behavior in animals.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Remove all sources of ignition. Do not flush to sewer. Have fire extinguishing agent available in case of fire. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.



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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): SPECIAL
PROPER SHIPPING NAME: TOWELS OR CLEANING CLOTHS
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA SECTION 311/312 (Specific toxic chemical listings): Acute, Chronic, Fire.

SARA SECTION 313 (Specific toxic chemical listings): 667-63-0 Isopropanol

RCRA (hazardous waste code): None of the ingredients is listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): None of the ingredients is listed.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1
Flammability = 2
Reactivity = 0
Other = -
Protection = X

REVISION DATE: 08/31/17

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.