Safety Data Sheet

Micro-Kill+ Disinfectant Wipes

Section 1. Identification

Product Identifier	Micro-Kill+ Disinfectant Wipes
Synonyms	MSC351200; MSC351210; MSC351230; MSC351240; MSD_SDS0037
Manufacturer Stock Numbers	MSC351200; MSC351210; MSC351230; MSC351240
Recommended use	Hard surface cleaner and disinfecting wipes specially formulated with a solution which is safe to use on hard surfaces. No significant hazards will arise from the intended and correct use of this product. See product label or insert for intended uses.
Uses advised against	N/A
Manufacturer Contact Address	Medline Industries, Inc. 3 Lakes Drive Northfield, IL, 60093 USA

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification	EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE LIQUIDS - Category 3
Signal Word	Warning

Pictogram

Hazard Statements
Causes serious eye irritation
Flammable liquid and vapor

Precautionary Statements

Response
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use agents recommended in section 5 for extinction.

Prevention
Ground/bond container and receiving equipment.
Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Wear protective gloves/protective clothing/eye protection/face protection

Storage
Store in a well-ventilated place. Keep container tightly closed.

Disposal
Dispose of contents/container as instructed in Section 13.

General
If medical advice is needed, have product container or label at hand.
Read label before use

Ingredients of unknown toxicity
0%

Hazards not Otherwise Classified
N.A.

Other Non-GHS Classification:
WHMIS
B2
D2B

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	Isopropyl alcohol	41.58 %
	Glycol Ether	1% - 5%
	Aliphatic Polymer	1% - 5%
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	0.12 %
85409-23-0	Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride	0.12 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

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.
Skin Contact:	Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical attention if irritation persists or if concerned.
Eye Contact:	Protect unexposed eye. Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.
Ingestion:	Dilute mouth with water or milk after rinsing. Immediately get medical assistance. Induce vomiting if directed to do so by medical personnel.
Most important symptoms and effects, both acute and delayed:	Shortness of breath, irritation, nausea, headache.
Indication of any immediate medical attention and special treatment needed:	If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

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.D.
Advice for firefighters:	Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to section 8. Additional information (precautions): Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Do not inhale gases, fumes, dust, mist, vapor, and aerosols.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Keep away from ignition sources. Protect from heat. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.
Environmental Precautions:	Prevent from reaching drains, sewer or waterway. Should not be released into environment.
Methods and Materials for Containment and Cleaning up:	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 absorvents. 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.

Section 7. Handling and Storage

Precautions for Safe 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 near extreme heat, ignition sources or open flame. Keep container tightly sealed. Protect from freezing and physical damage. Store away from incompatible materials.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm STEL: 500 ppm	N/A
Glycol Ether	N/A	N/A	N/A
Aliphatic Polymer	N/A	N/A	N/A
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	N/A	N/A	N/A
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride	N/A	N/A	N/A

Personal Protective Equipment Goggles, Gloves

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other enginnering controls to keep airborne concentrations of vapor an mist below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory Protection: None required under normal use conditions. Use suitable respiratory protective device when high concentrations are present.

Protection of skin: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation.

Eye Protection: Safety glasses with side shields or goggles.

General Hygienic Measures: Wash hands before breaks and at the end of work. Avoid contact with the 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

Physical State	Liquid
Color	Clear, colorless
Odor	Alcohol
Odor Threshold	Not available
Solubility	Infinite solubility
Partition coefficient Water/n-octanol	log Pow: 0.05
VOC%	N/A
Viscosity	Not available
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	82°F/ 27°C
FP Method	Closed cup
pH	Not available
Melting Point	Below -88°C
Boiling Point	Approx 82°C
Boiling Range	N.D.
LEL	2
UEL	12.7
Evaporation Rate	3.0
Flammability	Flammable
Decomposition Temperature	Not available
Auto-ignition Temperature	425.0°C
Vapor Pressure	Approx 33 at 20°C
Vapor Density	Not available

Relative density: 0.88 g/mL at 25°C

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.
Possibility of 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 atomised.
Conditions to avoid:	Incompatible materials.
Incompatibility (Materials 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 Byproducts:	Toxic oxides of carbon, acrid and irritating fumes.

Section 11. Toxicological Information

Acute Toxicity: Oral	Isopropanol CAS-No. 67-63-0 LD50 Rat 5,045 mg/kg
Acute Toxicity: Inhalation	Isopropanol CAS-No. 67-63-0 LC50 Rat 8 h - 16000 ppm
Acute Toxicity: Dermal	Isopropanol CAS-No. 67-63-0 LD50 Rabbit 12,800 mg/kg
Chronic Toxicity:	No additional information.
Corrosion Irritation:	No additional information.
Sensitization:	No additional information.
Specific Target Organ Toxicity - Single exposure:	No additional information.
Numerical Measures of Toxicity:	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 - 96h : 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:	N.D.
Bioaccumulative potential:	N.D.
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

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.

Section 14. Transport Information

UN Number	3175
UN Proper Shipping Name	SOLID CONTAINING FLAMMABLE LIQUID N.O.S. (Isopropyl Alcohol)
DOT Classification	4.1
Packing Group	II
Label Codes:	LTD QTY. DOT Packaging Exception: Inner package less than 1.0kg (2.2lbs)
IMDG - UN Number:	3175
IMDG - Proper Shipping Name	SOLID CONTAINING FLAMMABLE LIQUID N.O.S (Isopropyl Alcohol)
IMDG - Hazard Class:	4.1
IMDG - Packing Group:	II
IMDG - Label Codes:	LTD QTY. Dangerous Goods
In Accordance with IATA:	Not packaged for air shipment.

Section 15. Regulatory Information

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN.
WARNING - PRECAUTIONARY STATEMENTS: Hazard to Humans and Domestic Animals.
WARNING: Causes substantial but temporary eye injury.

SARA 311/312:	N.A.
SARA 302:	Not listed.
SARA 313:	Isopropyl alcohol.
TSCA:	N.A.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	Isopropyl Alcohol
Pennsylvania Right to Know Components:	2-PROPANOL.
Rhode Island Right to Know Components:	isopropyl alcohol.

Section 16. Other Information

Revision Date	8/1/2019
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
HMIS (U.S.A.): Health	1
HMIS (U.S.A.): Flammability	2
HMIS (U.S.A.): Physical Hazard	0
HMIS (U.S.A.): Personal Protection	X
National Fire Protection Association (U.S.A): Health Hazard	1
National Fire Protection Association (U.S.A): Flammability	2
National Fire Protection Association (U.S.A): Reactivity	0
Additional Information:	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.