

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product name	MD-7030-R5L Disinfectant Refill
Product code	MD-7030-R5L
Brand	Greenwipes®
Product use	For general-purpose surface disinfection
Manufacturer	RPD Sdn Bhd
Address	15 Jalan Astana 1C, Gateway Industrial Park, Bukit Raja, 41050, Klang Slangor, Malaysia
Telephone	60 333 115 981

SECTION 2 : HAZARD IDENTIFICATION

Clear, colorless liquid with an alcohol-like odor.

Emergency Overview: Contains Isopropyl Alcohol (IPA).
Highly flammable liquid and vapor.
May cause drowsiness or dizziness if inhaled in high concentrations.
May cause mild irritation or dryness on prolonged or repeated skin contact.
Eye irritation is unlikely under normal conditions of use.

EU Classification (1272/2008 CLP): Flammable (F); R11 (Highly flammable)
Irritant (Xi); R36 (Irritating to eyes)
R67 (Vapors may cause drowsiness and dizziness)

US OSHA Classification (29 CFR 1910.1200):
Irritant: Flammable Liquid: Category 2
Category 2 (Eyes)

GHS Classification:
Flammable liquid: Category 2
Eye irritation: Category 2A
Specific target organ toxicity (Single Exposure): Category 3

GHS Label Elements:



Hazard Pictograms:



Hazard Statements: Highly flammable liquid and vapor.

Causes serious eye irritation.
 May cause drowsiness or dizziness.
 Precautionary Statements:
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Avoid breathing vapor.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/eye protection.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

SECTION 3 : COMPOSITION OR INFORMATION ON INGREDIENTS

Chemical Name	CAS-No/EINECH-No	% (by weight)	EU Classification (67/548/EEC)
Isopropyl Alcohol	67-63-0 / 200-661-7	70%	F; R11 – Highly flammable Xi; R36 – Irritating to eyes R67 – Vapors may cause drowsiness and dizziness
Deionized Water	7732-18-5 / 231-791-2	30%	Not classified as hazardous

SECTION 4 : FIRST AID MEASURES

General advice: Remove contaminated clothing and shoes. Move the affected person away from the source of exposure. Seek medical attention if symptoms persist.

If inhaled: Move the person to fresh air and keep them at rest. If unconscious, place in the recovery position and seek medical attention immediately. Call a doctor if symptoms such as dizziness, headache, or nausea persist.

In case of eye contact: Rinse immediately with plenty of clean water for at least 15 minutes, keeping eyelids open. Remove contact lenses if present and easy to do. Protect the unaffected eye. If irritation persists, consult an eye specialist.

If swallowed: Do not induce vomiting. Rinse the mouth with water if the person is conscious. Keep the airway clear and do not give anything by mouth to an unconscious person. Seek medical attention if symptoms persist.

Most important symptoms and effects, both acute and delayed: Inhalation of vapors may cause drowsiness, dizziness, and headache. Eye contact causes irritation, redness, and tearing. Prolonged skin contact may cause dryness or mild irritation. Ingestion may cause nausea and gastrointestinal discomfort.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically. No specific antidote is known. Supportive care should be given based on the patient's condition.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use foam, carbon dioxide (CO ₂), or dry chemical powder.
Unsuitable extinguishing media:	Do not use a water jet, as it may spread the fire.
Specific hazards arising from the substance:	Vapors are highly flammable and may form explosive mixtures with air.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Additional advice:	Cool exposed containers with water spray to prevent rupture. Remove ignition sources from the area.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Precautions:	Remove all sources of ignition and ensure adequate ventilation. Avoid inhalation of vapors and contact with eyes or skin. Wear suitable protective equipment such as gloves, goggles, and protective clothing. Keep unprotected personnel away from the spill area.
Environmental:	Prevent products from entering drains, sewers, or waterways. Avoid discharge into the environment. Notify relevant authorities if significant contamination occurs.
Cleanup:	Contain and collect spillage with non-combustible absorbent materials (e.g., sand, earth, vermiculite). Place collected material in properly labeled containers for disposal in accordance with local regulations. Clean the affected area with water after removal of the material. Use non-sparking tools and explosion-proof equipment.
Additional advice:	Ensure adequate ventilation before re-entry to the area. Vapors may accumulate in low-lying areas; avoid confined spaces. Dispose of waste material safely in accordance with Section 13.

SECTION 7 : HANDLING AND STORAGE

Advice on protection against fire and explosion:	Normal measures for preventive fire protection. Keep away from heat, sparks, open flames, and hot surfaces. Use explosion-proof equipment and non-sparking tools.
Advice on safe handling:	Avoid inhalation of vapors and contact with skin and eyes. Use only in well-ventilated areas. Smoking, eating, and drinking should be prohibited in the application area.
Hygiene measures:	General industrial hygiene practice.

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name	Exposure Limit(s)
Isopropyl Alcohol	OSHA PEL: 400 ppm ACGIH TLV: 200 ppm
Deionized Water	No occupational exposure limit established.

Engineering Controls:	Use in a well-ventilated area to prevent the accumulation of vapors. Local exhaust ventilation is recommended if significant vapor generation is expected.
Respiratory Protection:	Not required under normal use. If ventilation is insufficient, use an approved respiratory mask for organic vapors.
Hand Protection:	Gloves are recommended if prolonged contact with the spray is expected.
Eye Protection:	Safety glasses or goggles should be worn if there is a risk of splashing.
Skin and Body Protection:	No special protective clothing required for normal use.
Hygiene Measures:	Wash hands thoroughly after handling the product. Avoid inhaling vapors. Do not eat, drink, or smoke in the application area.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Property	Description
Physical state	Clear, colorless liquid
Appearance	Liquid (spray form)
Odor	Characteristic alcohol odor
Odor threshold	Approx. 22 ppm (isopropyl alcohol)
pH	Neutral (approximately 7)
Melting point/Freezing point	Not determined
Boiling point / Boiling range	82 – 83°C (isopropyl alcohol)
Flash point	Approx. 12°C (closed cup)
Evaporation rate	Fast (compared to n-butyl acetate = 1)
Burning rate	Not available
Upper explosion limit / Upper flammability limit	12.7% v/v
Lower explosion limit / Lower flammability limit	2.0% v/v
Flammability	May burn if it is exposed to flame
Vapor pressure	Approx. 4.4 kPa at 20°C
Relative vapour density	2.1 (air = 1)
Relative density	0.87 at 20°C
Solubility	Completely soluble (liquid portion)
Partition coefficient: n-octanol/water	log Pow = 0.05
Auto-ignition temperature	Approx. 399°C
Decomposition temperature	No decomposition if stored and used as directed

SECTION 10 : STABILITY AND REACTIVITY

Property	Description
Chemical stability	Stable under normal storage and handling conditions
Possibility of hazardous reactions	None known under normal use; vapors may form explosive mixtures with air.
Conditions to avoid	Excessive heat, open flames, sparks, and direct sunlight.
Incompatible materials	Strong oxidizing agents, strong acids, and alkali metals.
Hazardous decomposition products	Carbon monoxide (CO) and carbon dioxide (CO ₂) may form upon combustion.

SECTION 11 : TOXICOLOGICAL INFORMATION

Property	Description
Acute toxicity	No data available; not expected to be toxic
Skin corrosion/irritation	May cause mild irritation or dryness on prolonged or repeated contact.
Serious eye damage/irritation	Not expected to cause irritation
Respiratory or skin sensitization	Not expected to be a sensitizer
Germ cell mutagenicity	Not classified as mutagenic based on available data.
Carcinogenicity	Not classified as carcinogenic (IARC, NTP, OSHA).
Reproductive toxicity	No known reproductive effects.
STOT – single exposure	May cause drowsiness or dizziness (inhalation of high vapor concentrations).
STOT – repeated exposure	Not expected to cause target organ effects under normal conditions of use.
Aspiration hazard	Not applicable for wipe form.

SECTION 12 : ECOLOGICAL INFORMATION

Aspect	Description
Ecotoxicity	Not expected to be harmful to aquatic organisms in small quantities; large spills may cause adverse effects.
Persistence and degradability	Isopropyl alcohol is readily biodegradable in the environment.
Bioaccumulative potential	Low

Mobility in soil	High mobility due to water solubility; may evaporate from soil surfaces.
Other adverse effects	None known

SECTION 13 : DISPOSAL CONSIDERATION

Aspect	Description
Waste treatment methods	Dispose of product and contaminated materials in accordance with local, regional, and national regulations. Do not discharge into drains or waterways.
Product disposal	Collect used or unused wipes and dispose of them as non-hazardous solid waste if uncontaminated. Large quantities should be treated as flammable waste due to alcohol content.
Contaminated packaging	Empty containers or pouches may contain flammable residues; dispose of in accordance with local regulations. Do not reuse or burn in open air.

SECTION 14: TRANSPORT INFORMATION

Aspect	Description
UN number	Not applicable
UN proper shipping name	Not regulated
Transport hazard class	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions	None required

SECTION 15: REGULATORY INFORMATION

Aspect	Description
Safety, health and environmental regulations	This product is not classified as hazardous according to EU Regulation (EC) No. 1272/2008 (CLP) or OSHA Hazard Communication Standard (29 CFR 1910.1200)
Chemical inventory	All components are listed or exempted from major chemical inventories (TSCA, EINECS, etc.)

SECTION 16: OTHER INFORMATION

The information provided in this document is based on our current knowledge and experience and is intended to describe the product solely in terms of health, safety, and environmental requirements. It should not be

interpreted as a guarantee of specific properties, performance, or suitability for any particular application. Users are responsible for determining the appropriateness of this product for their intended use and for complying with all applicable regulations and standards. The manufacturer shall not be held liable for any loss, damage, or injury resulting from improper use, handling, or storage of the product. Continuous improvement may lead to changes in the information contained herein without prior notice.

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