

SAFETY DATA SHEET (SDS)

Cydal+ Alcohol Disinfectant

NUR JAYA MEDIC SDN. BHD.

No. 2 & 2A, Lorong Industri Ringan Permatang Tinggi 12, Taman Industri Ringan Permatang Tinggi, 14100 Simpang Ampat, Pulau Pinang, Malaysia.

SECTION I: PRODUCT IDENTIFICATION

PRODUCT

Product Trade Name : Cydal+ Alcohol Disinfectant
Chemical name and Synonyms : Isopropyl Alcohol
Chemical Formula : CH₃CHOHCH₃
Emergency Telephone Numb:
BOMBA HOTLINE: 999 BOMBA TOLLFREE: 1800 888 994

SECTION II: HAZARD IDENTIFICATION

Hazardous Components OSHA ACGIH
Isopropanol: (CAS No.67-63-0) 400ppm 400ppm
NFPA Health=1 Flammability=3 Reactivity=0

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids : Category 2

Serious Eye Damage : Category 2A

GHS Label Elements :
Symbol(s)



Material Name : Cydal+ Alcohol Disinfectant

Signal Word : Danger

Hazard Statement(s) : Highly flammable liquid and Vapour causes serious eye irritation

SECTION III: COMPOSITION/INFORMATIONS ON INGREDIENTS

LIST OF COMPONENT

CAS No	Ingredient Name	Weight %
67-63-0	Isopropyl Alcohol	68-72%

The actual concentration of the components listed above is withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

Potential Health Effects:

Eyes	Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage
Skin	May causes skin irritation
Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
Inhalation	Inhalation of high concentration may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Cause respiratory tract irritation. May cause narcotic effects in high concentration. Vapours may causes dizziness or suffocation

First Aid Measures:

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medicinal aid. Gently lift eyelids and flush continuously with water
Skin	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes, Wash clothing before reuse, Flush skin with plenty of soap and water.
Ingestion	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.
Notes to Physician	Treat symptomatically and supportively. Person with skin or eyes disorder or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system disease may be at increased risk from exposure to this substance

SECTION V: FIRE FIGHTING MEASURES

Flammable Limits	: 750F
LEL	: 2%
UEL	: 12%
Extinguishing Media	: Alcohol Resistance Foam, CO ₂ or Dry Chemical.
Special Fire Fighting Procedures	: Handle as a Flammable Liquid
Unusual Fire Explosion Hazards	: Respiratory Protection Required for Firefighting Personal.

Suitable • Dry chemical, carbon dioxide (CO²), foam , or water spray.

Extinguishing Media

Unsuitable • Use of spray when fighting fire may be inefficient

Extinguishing Media

Specific Hazards Arising from the Chemical • Alcohol flames may not be readily visible. Vapors are heavier than air and may travel to source of ignition and flash back. Vapors may form explosive mixtures with air.

Hazardous Combustion Products • Oxides of carbon

Explosion Data • Sensitive to mechanical impact : No
• Sensitive to Static Discharge : Yes

Protective Equipment and precaution of firefighters • As any in fire, wear self-contained breathing apparatus pressure-demand and full protective gear.
Keep containers cool with water spray.

SECTION VI: ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures**
- Contain spillage in suitable container(s) for examination and possible return to stock.
 - Unless packaging is broken, no eye/skin protection should be required.
 - If packaging is broken and continuous handling necessary, then approved eye protection must be worn and gloves/protective clothing are recommended

- If disposal is required, local/national regulations/guidelines should be adhered to.
- Product must be disposed of as Hazardous Waste.
- Avoid breathing any vapour or mist.
- Wear appropriate personal protective equipment

SECTION VII: PRECAUTION FOR SAFE HANDLING AND USE

Handling Flammable	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/ fumes/ vapor/ spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingesting, seek medical advice immediately and show the container or the label. Keep away from the incompatible such as oxidizing agent, acids.
Storage Flammable	Store in segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly and sealed until ready for use. Avoid all possible sources of ignition (sparks or flame).

SECTION VII: PERSONAL PROTECTION

Respiratory protection	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide
Hand protection	Protection should be used for prolonged or repeated skin contact, use suitable protective gloves. Disposable gloves are recommended, butyl or nitrile disposable gloves. Prolonged contact can cause skin to dry and initiate irritation.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION IX: PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State	: Impregnated wipes/ colourless solution
Boiling Point	: 80.2 deg C
Vapour Pressure (mmHg)	: 33mmHg@20 Deg C
Vapour Density	: 2.1
Specific Gravity	: 0.8405
Melting Point	: -31.5 deg C
Solubility in Water	: Complete
Appearance and Odour	: White non-woven cloth saturated with Alcohol Solution
	: Colourless solution
Odor	: Alcohol and Firmenich order
Flash point	: 77 degrees F
Evaporation rate	: 2.3
Solubility	: Complete

SECTION X: STABILITY & REACTIVITY DATA

Stability	: Stable
Incompatibility (Materials to Avoid)	: None Known
Hazardous Polymerization	: Will Not Occur

SECTION XI: TOXICOLOGICAL INFORMATION

Potential Health Effects

Acute Oral Toxicity	Ingestion of liquid may cause gastrointestinal irritation, nausea, vomiting and diarrhoea
Acute inhalation toxicity	Inhalation of high concentration of vapour or mist may cause irritation to the respiratory tract, headaches, dizziness, nausea and vomiting
Acute dermal toxicity	Repeated exposure may cause skin dryness or cracking
Skin corrosion / irritation	Repeated exposure may cause skin dryness or cracking
Serious eye damage / irritation	Cause serious eye irritation
Respiratory or skin sensitization	Vapours may cause drowsiness or dizziness
Carcinogenicity	No Information Available
Reproductive toxicity	No Information Available

Germ cell mutagenicity	No Information Available
STOT-single exposure	No Information Available
STOT-repeated exposure	No Information Available
Aspiration hazard	No Information Available
Other information	No applicable toxicity data. No known significant effects or critical hazards.

SECTION XII: ECOLOGICAL INFORMATION

No direct testing has been carried out on the finished product but based on the ingredients, no harmful effects on the environment would be expected. The following information is based on that obtained on testing of the main ingredient (Propan-2-ol)

Toxicity	No Information Available
Mobility in soil	The liquid is water soluble, however the amounts of liquid involved will not present any problems.

SECTION XIII: DISPOSAL CONSIDERATION

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Packaging is recyclable. Wash out containers with water before disposal.

Product	Do not flush to sanitary sewer.
Contaminated packaging	Dispose of in accordance with local, state, and federal regulations.
Hazardous waste	The classification of the product meets the criteria for hazardous waste

SECTION XIV: INTERNATIONAL TRANSPORT INFORMATION

Product Class	: Consumer Commodity, ORM-D
UN Number	: 1219, Class 3, Packing Group 2

SECTION XV: OTHER INFORMATION

Safety Data Sheet dated: 22 March 2022 - version 00. The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet does not constitute a product warranty or specification. It is the responsibility of the recipient of the product to ensure that applicable law is observed in the use of the product.