

Material Safety Data Sheet – MSDS

Product Name: CR80 Card Reader Cleaning Card

Product Number: CRCC-CR80-IPA

General Use: Technical Cleaning

Product Description: 99.9 % Isopropyl Alcohol for Technical Cleaning

SECTION I

Manufacturer's Name & Address:**Miraclean Technology Co Ltd.**

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Complies with OSHA Hazard Communication

Standard 29 CFR 1910.1200

SECTION II - Hazardous Ingredients/ Identity Information

Hazardous Components CAS # OSHA PEL. ACGIH TLV %

Isopropyl alcohol 67-63-0 500 ppm STEL 91%

This Product contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372: NONE

SECTION III - Physical/Chemical Characteristics

Boiling Point: 180.07F

Percent Volatile: 91%

Evap. Rate: 2.88 (Butyl Acetate = 1)

Vapor Density (AIR=1) 2.07

Solubility in Water

Appearance and Odor

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): TCC 63F, 17 C (Tag Open Cup ASTM D 1310)

Flammable Limits:

Extinguishing Media: CO2, Foam, Dry Chemical

Unusual Fire Hazards: Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating fire hazard.

SECTION V - Reactivity Data

Stability: Stable

Hazardous Polymerization:

Conditions to Avoid: None known.

Incompatibility (Materials to avoid): Strong oxidizing agents, halogens, strong inorganic acids, aldehydes, and halogen compounds.

Hazardous Decomposition or Product:

SECTION VI - Health Hazard Data

Primary Route(s) of Exposure: Swallowing, skin contact, inhalation and eye contact.

Acute Effects:

Swallowing: Slightly toxic. May cause abdominal discomfort, nausea, vomiting, diarrhea, loss of consciousness and drowsiness. Inhalation: Vapor causes irritation of the respiratory tract, with coughing and chest discomfort.

Skin contact: May cause minor irritation with itching and possible slight local redness. Prolonged or repeated contact may cause defatting and drying of the skin.

Eye contact: Causes irritation, experienced as stinging and discomfort or pain. Corneal injury may occur. Chronic: No adverse effects anticipated from available information.

Emergency and First Aid Procedures:

SWALLOWING: If patient is fully conscious, give two glasses of water. Induce vomiting and seek medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

INHALATION: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

EYES: Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.

SECTIONS VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazard. Wear suitable protective equipment.

Avoid contact with eyes. Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

Waste Disposal Method: Incinerate in a furnace where permitted under Federal, State and local regulations.

At very low concentrations in water, this product is biodegradable in biological wastewater treatment plant.

Precautions to Be Taken in Handling and Storing: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources. Published "auto ignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in the elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin called "Ignition Hazards of Organic Chemical Vapors".

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