

## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Name:** MS-270  
IPA-70 Clean  
K0227A

**Product Use:** Cleaning Solvent

### **MANUFACTURER/DISTRIBUTOR:**

Miller-Stephenson Chemical  
55 Backus Ave.  
Danbury, Conn. 06810 USA  
(203) 743-4447

**Emergency Phone Number:**  
(800) 424-9300

## 2. HAZARDS IDENTIFICATION

### **Hazard classification**

Flammable aerosol: Category 1

Eye Irritation: Category 2A

Specific Target Organ Toxicity (single exposure): Category 3

### **Label elements:**

#### **Signal word**

Danger

#### **Pictograms**



### **Hazardous warnings**

Highly flammable aerosol.

Causes serious eye irritation.

May cause drowsiness or dizziness

### **Precautionary Statements**

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.  
Avoid breathing fumes/gas/vapor/spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a POISON CENTER or doctor/ physician if you feel unwell.  
If eye irritation persists: Get medical advice/ attention.  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
Dispose of contents/container to an approved waste disposal plant.

#### **Other Hazards**

May form explosive peroxides.

### **3. INGREDIENTS**

<u>Material (s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Isopropyl Alcohol (IPA)	67-63-0	65 – 75
Nitrogen	7727-37-9	< 0.5

### **4. FIRST AID MEASURES**

**Inhalation:** Remove patient to fresh air. Get medical attention.

**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Continue to rinse. Get medical attention.

**Skin:** Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before use. Thoroughly clean shoes before reuse. Get medical attention.

**Oral:** DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Eye contact may provoke the following symptoms: Irritation Causes serious eye irritation. May cause drowsiness or dizziness. Other symptoms potentially related to misuse or inhalation: Headache, drowsiness, staggering, unconsciousness.

### **5. FIRE FIGHTING MEASURES**

**Flammability:** This product is flammable.

**Test Method:** Ignition distance test and Enclosed space ignition test

**Autoignition Temperature:** 797°F /425°C (IPA)

**Flammable Limits in Air, % by Vol.:**

LEL: 2% (IPA)

UEL: 12.7% (IPA)

**Suitable Extinguishing Media:** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)

**Unsuitable extinguishing media:** Do not use waterjet.

**Special hazards:** Carbon oxides expected to be the primary hazardous combustion product.

**Special Fire Fighting Instruction:** Self-contained breathing apparatus (SCBA) may be required if a large amount of aerosols rupture under fire conditions. Evacuate personnel to safe area. Fight fire from a distance, heat may rupture containers.

**Further information:** Keep containers cool by spraying with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Flammable aerosol. Use personal protective equipment. Avoid breathing vapors, mist or gas. Evacuate personnel to safe area. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Wear suitable respiratory equipment.

**Environmental Precautions:** If containers rupture, prevent material from entering sewers, waterways, or low areas. Should not be released into the environment.

**Methods and material for containment and cleaning up:** Immediately notify authorities of any reportable spill as may be required pursuant to regulations. Prevent further leakage or spillage, if safe to do so. Use non-flammable absorbent and transfer the absorbent material, using non-sparking tools into an approved container for disposal according to local regulations.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, or clothing. Do not inhale vapor or mist. Wash thoroughly after handling. Keep away from heat, sparks, and open flame. Take measures to prevent the buildup of electrostatic charge.

**Storage Conditions:** Store in a clean, cool and dry area that is well-ventilated. Do not store sources of heat, in direct sunlight or where temperatures exceed 120°F/49°C. Do not pierce or burn, even after use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Limits:</u>	<u>TWA (ACGIH)</u>	<u>TWA (OSHA)</u>
Isopropyl Alcohol	200 ppm, TWA	400 ppm, TWA

Use only with adequate ventilation.

Vapors are heavier than air posing a hazard of asphyxia if they are trapped in enclosed or low places. Mechanical ventilation should be used in these areas.

**Eye Protection:** Wear safety glasses or coverall chemical splash goggles.

**Respiratory Protection:** Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH approved respiratory protection.

**Skin Protection:** Where there is potential for skin contact have available and wear as appropriate impervious gloves. Gloves of nitrile rubber are recommended.

Do not smoke in area. Wash after handling. Do not eat or drink when using the material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N.A.

**Density:** 0.86 g/cc @ 77°F/25°C

**Vapor Density (Air=1):** 2.1

**pH Information:** Neutral

**Form:** Aerosol

**Color:** Colorless

**Percent Volatile by Volume:** 100

**Vapor Pressure:** N.A.

**Solubility in H<sub>2</sub>O:** Soluble in water

**Evaporation Rate (CC14=1):** N.A.

**Appearance:** Clear & Colorless

**Odor:** Alcohol odor

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal temperatures and storage conditions.

**Possibility of hazardous reactions:** Vapors may form flammable mixture in air.

**Conditions to Avoid:** Heat, sparks, and flames. Exposure to elevated temperatures, direct sunlight. Avoid static discharge.

**Incompatible Materials:** Avoid contact with: Aldehydes. Aluminum, Halogenated organics. Halogens. Strong acids. Strong oxidizers.

**Hazardous decomposition products:** Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Isopropyl Alcohol

**Acute Oral Toxicity:** LD50, Rat: > 5,000mg/kg

**Acute Inhalation Toxicity:** 6 hour, LC50, Rat: > 25mg/l (vapor)

**Acute Dermal Toxicity:** LD50, Rabbit: > 5,000 mg/kg

**Skin Corrosion/Irritation:** No skin irritation in rabbits

**Serious Eye Irritation/ Eye Irritation:** Eye irritation, in rabbits. Reversing in 21 days.

**Skin Sensitization:** Not classified based on available information

**Respiratory Sensitization:** Not classified based on available information

**Germ Cell Mutagenicity:** Not classified based on available information

**Carcinogenicity:** Not classified based on available information.

**Reproductive toxicity:** Not classified based on available information

**STOT-single exposure:** May cause drowsiness and dizziness.

**STOT-repeated exposure:** Not classified based on available information

**Aspiration toxicity:** Not classified based on available information

## 12. ECOLOGICAL INFORMATION

### Isopropyl Alcohol

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Toxic to Fish:** 96 hour, LC50 in Fathead minnow (*Pimephales promelas*): 9640 mg/l

**Toxic to daphnia and other aquatic invertebrates:** 24 hour, EC50 Water flea (*Daphnia magna*): >10,000 mg/l

**Toxic to microorganisms:** 16 hour, EC50 (*Pseudomonas putida*): >1,050 mg/l

**Persistence and degradability:** Rapidly degradable

**Bioaccumulative potential:** Partition coefficient n-octanol/ water (log Pow): 0.05

**Mobility in soil:** No data available.

## 13. DISPOSAL CONSIDERATIONS

Empty containers must not be burned because of the explosive hazard. Recover and reclaim or recycle, if practical. Comply with Federal, State/Provincial and Local regulations. Remove to a permitted waste disposal facility.

## 14. TRANSPORT INFORMATION

### U.S. DOT

Limited Quantity

### IATA

**Proper Shipping Name:** Aerosols, Flammable

**Hazard Class:** 2.1

**Identification No.** UN1950

**Packing Group:** None

### IMDG

**Proper Shipping Name:** Aerosols, Flammable

**Hazard Class:** 2.1

**Identification No.** UN1950

**Packing Group:** None

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**TSCA:** All ingredients are listed in TSCA inventory.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## 16. OTHER INFORMATION

### NPCA-HMIS Ratings:

Health - 1

Flammability - 3

Reactivity - 0

Personal Protective rating to be supplied by user depending on the conditions.

### **FOR INDUSTRIAL USE ONLY**

### **REVISION DATE: NOVEMBER 2020**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.