 武汉中森医疗用品有限公司	MSDS No. : <b>ZS-24-002</b>
	Revision: <b>A/0</b>
	Issue Date: 2025-03-24
<b>Title:</b>	<b>40% IPA Pad MSDS</b>
Prepared By: <b>R&amp;D Dept. Of Wuhan Zonsen Medical Products Co., Ltd.</b>	Page 1 of 6


**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**


<b>PRODUCT NAME</b>	40% IPA Pad	<b>DESCRIPTION:</b> Non-woven pad saturated with 40% Isopropyl Alcohol
Recommended Use:	For Lens Cleaning	
Supplier Name	<b>Wuhan Zonsen Medical Products Co., Ltd.</b>	
Supplier Address	Chengbei Industry Zone, Zhucheng Avenue, Xinzhou District,Wuhan,Hubei,431400	

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

<b>HAZARDOUS COMPONENTS</b> (Specific Chemical Identity: Common Names)	<b>CAS #</b>	<b>%</b>	<b>Function</b>
Isopropyl Alcohol	67-63-0	40% (V / W)	Antiseptic
Water	7732-18-5	UP TO 100%	Solvent

**SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)**

Classification	Eye Damage/Irritation - Category 2, H319 Highly Flammable Liquid and Vapor – Category 2, H225 Specific target Organ Toxicity –Single Exposure – Category 3, H336
Signal Word	Warning, Danger
Pictogram	
Hazard Statements	Cause serious eye irritation Highly Flammable Liquid and Vapor May cause drowsiness, or dizziness
EYE:	Cause serious eye irritation
SKIN:	Low toxicity Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
INHALATION (BREATHING):	Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches

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	and dizziness, could be anesthetic and may have other central nervous system effects
INGESTION (SWALLOWING):	Small amount of liquid aspirated into the respiratory system during ingestion or from vomiting may cause pneumonia or pulmonary edema.
SIGNS AND SYMPTOMS:	Take by mouth may cause nausea, vomiting, stomach pains, diarrhea, coma or death
CANCER:	N/A
TARGET ORGANS:	N/A
DEVELOPMENTAL:	N/A
OTHER COMMENTS:	N/A
PRE-EXISTING MEDICAL CONDITIONS:	N/A

#### SECTION 4 - FIRST AID MEASURES

EYES CONTACT:	Immediately flush eyes with large amount of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.
SKIN CONTACT:	Rinse/Flush with large amounts of water for 15~20minutes; use available soap; if irritation persists or if concerned, seek medical attention. Remove grossly contaminated clothing, including shoes, and launder before reuse.
INHALATION (BREATHING):	Using proper respiratory protection, immediately remove the affected victim from exposure to fresh air and keep at rest in a position comfortable for breathing. Administer artificial respiration if breathing is stopped. Call for prompt medical attention.
INGESTION (SWALLOWING):	If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.
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

FLAMMABLE PROPERTIES:	Flash Point: 21 degree celsius OSHA Flammability Class: 3 LEL/UEL: 2.0/12.7(vol%) Auto ignition Temperature: 399 degree celsius
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UNUSUAL FIRE & EXPLOSION HAZARDS:	N/A
SUITABLE EXTINGUISHING MEDIA:	In case of fire, use Dry Chemical, Chemical foam, Alcohol - resistant foam, Carbon Dioxide (CO2). Water spray can be used to dilute spills to nonflammable mixtures.
SUITABLE EXTINGUISHING MEDIA:	Water may be ineffective but should be used to cool fire - exposed structures and vessels. DO NOT USE: Direct water stream.
FIREFIGHTING INSTRUCTIONS:	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. Use non - sparking tools and intrinsically safe equipment.

#### SECTION 6- ACCIDENTAL RELEASE MEASURES


PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Keep away from ignition sources. Protect from heat.
ENVIRONMENTAL PRECAUTIONS:	Do not flush into surface water or sanitary sewer system. Should not be released into the environment
FLAMMABLE SMALL SPILL:	Absorb with an inert dry material and place in an appropriate waste disposal container.
FLAMMMABLE LARGE SPILL:	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non - combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas.

#### SECTION 7- HANDLING AND STORAGE

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 ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles, such as oxidizing agents, acids.
STORAGE FLAMMABLE:	Store in a cool location. Store securely in flammable storage area away from sources of ignition. Do not store in Temperatures > 122°F. Provide ventilation for containers. Avoid storage 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

ENGINEERING CONTROLS:	The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space ,is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure
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	limited. Use explosion-proof ventilation equipment.
RESPIRATORY PROTECTION:	Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type "A" or similar may be considered for use.
SKIN PROTECTION:	The use and choice of personal protection equipment is related to the hazard of the product, the workplace, and the way the product is handled. In general, we recommend as a minimum safety precaution that safety glasses with side shields and workclothes protecting arms, legs and body be used. In additional, any person visiting an area where this product is handled at processed should at least wear safety glasses with side-shields.
EYE/FACE PROTECTION:	When handling this product, it is recommended to wear splash resistant goggles.
OTHER WORK/HYGIENIC PRACTICE:	No smoking. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

#### SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES


**Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm)**

FLASH POINT:	21 degree celsius
FLAMMABLE/EXPLOSIVE LIMITS(%):	LEL/UEL:2.0/12.7 vol%
AUTO IGNITION TEMPERATURE:	399 degree celsius
COLOR	Clear, colorless with characteristic of IPA
SOLUBILITY	Azeotrope
FLAMMABILITY	Flammable
PHYSICAL STATE:	Solid
ODOR:	Isopropyl Alcohol Odour
pH:	Not applicable
VAPOR PRESSURE (kPa):	33 mmHg
BOILING POINT:	Not determined
FREEZING/MELTING POINT:	-88.5 degree celsius
SOLUBILITY IN WATER:	Not available
SPECIFIC GRAVITY:	Not available
EVAPORATION RATE (nBuAc=1):	2.5

#### SECTION 10 - STABILITY & REACTIVITY

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CHEMICAL STABILITY:	No decomposition if used and stored according to specifications. Stable under normal conditions.
CONDITIONS TO AVOID:	Incompatible materials.
INCOMPATIBLE (MATERIALS TO AVOID):	Strong Oxidizing agents, acids, acid anhydride, halogen
INCOMPATIBLE (MATERIALS TO AVOID):	Heat sparks
INCOMPATIBLE (MATERIALS TO AVOID):	Open flames, Will attach 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
HAZARDOUS POLYMERIZATION:	N/A
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>	
ACUTE TOXICITY: DERMAL	Not available
ACUTE TOXICITY: ORAL(RAT) LD50:	5045mg/kg
ACUTE TOXICITY: INHALATION	Not available
CHRONIC TOXICITY	Not available
CORROSION IRRITATION	Not available
SPECIFIC TARGET ORGAN	Not available
CARCINOGENICITY	Not available
MUTAGENICITY	Not available
REPRODUCTIVE TOXICITY	Not available
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
ECOTOXICITY:	Not available
PERSISTENCE AND DEGRADABILITY	Not available
BIOACCUMULATIVE POTENTIAL:	Not available
MOBILITY IN SOIL	Not available
OTHER ADVERSE EFFECTS	This product 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
<b>SECTION 13 - DISPOSABLE CONSIDERATIONS</b>	
WASTE DISPOSAL:	It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. 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.

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SECTION 14 - TRANSPORT INFORMATION	
DANGEROUS GOODS CODE:	32064
UN CODE:	1219
UN PROPER SHIPPING NAME:	Not available
DOT CLASSIFICATION	ORM-D Limited Quantity
PACKING GROUP	052
SECTION 15 - REGULATORY INFORMATION	
GOVERNING DIRECTIVE:	Dangerous Substances Directive 67/548/EC,as modified.
<p>Warning: S07/09 Keep container tightly closed and in a well ventilated place</p> <p>S16 Keep away from sources of ignition. No Smoking</p> <p>S24/25 Avoid contact with skin and eyes.</p> <p>S26 In case of contact with eyes, flush immediately with plenty of water and seek medical advice</p> <p>S33 Take precautionary measures against static discharges</p> <p>S43B In case of fire, use Dry Chemical, Chemical foam, Alcohol-resistant foam, Carbon Dioxide (CO2).</p>	
SECTION 16 - OTHER INFORMATION	
<b>DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES</b>	<p>The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of Wuhan Zonsen Medical Products Co., Ltd. 's suppliers and may not have been independently verified by Zonsen. Zonsen is not responsible for errors or omissions in, or completeness of the product information. ZONSEN DISCLAIMS ALL WARRANTIES OF ANY KIND OR NATURE, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF THE SUITABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE</p>

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