

	MaiMed GmbH Robert-Koch-Str. 1-7 29643 Neuenkirchen Germany	MSDS No. : YJ-05-001
		Revision: A/2
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SECTION 1- PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME	Alcohol Prep Pads
DESCRIPTION:	Non-woven pad saturated with 70% Isopropyl Alcohol
Recommended Use:	Wipes for effective cleaning of unbroken skin.
Manufacturer Name:	MaiMed GmbH
Manufacturer Address:	Robert-Koch-Str. 1-7 29643 Neuenkirchen Germany
Emergency phone number:	+49 (0)5195 9707-0
SECTION 2 - HAZARDS IDENTIFICATION	
Classification of substance or mixture:	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
Precautionary Statements:	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only in a well-ventilated area.
Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of waste and residues in accordance with local authority

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	requirements.
Ingredients of unknown toxicity:	N.A.
Hazards not Otherwise Classified:	No Data Available

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures


Ingredients	CAS #	Conc.(%) by Volume	Classification
Isopropyl Alcohol	67-63-0	70	Eye Damage/Irritation - Category 2, H319 Highly Flammable Liquid and Vapor – Category 2, H225 Specific Target Organ Toxicity –Single Exposure – Category 3, H336
Water	7732-18-5	30	NOT APPLICABLE

SECTION 4 - FIRST AID MEASURES

FIRST AID MEASURES GENERAL:	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. □
INHALATION:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
SKIN CONTACT:	In case of skin irritation, discontinue use of product. Wash off with soap and water. Get medical attention if irritation develops and persists.
EYES CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
INGESTION:	If swallowed, get medical help or contact a Poison Control Center immediately. Immediately rinse mouth out with water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:	May cause eye damage. Vapors may cause drowsiness or dizziness.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	Provide general supportive measures and treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical.
UNSUITABLE EXTINGUISHING MEDIA:	Not available.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	During fire, gases hazardous to health may be formed.

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SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS:	In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.
SPECIFIC METHODS:	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

SECTION 6- ACCIDENTAL RELEASE MEASURES


PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Eliminate all source of ignition. Wear appropriate protective equipment and clothing during clean-up.
ENVIRONMENTAL PRECAUTIONS:	Prevent from entering waterways.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:	For large releases, absorb into dry earth and transfer into containers. Wash spill site and water.
REFERENCE TO OTHER SECTIONS:	For personal protection, see section 8 of this SDS. For disposal consideration, see section 13 of this SDS.

SECTION 7- HANDLING AND STORAGE


PRECAUTIONS FOR SAFE HANDLING:	Flammable, keep away from fire or flame. Do not use with electrocautery procedures. Use according to package label instructions. Discard after single use. Wear appropriate personal protective equipment. Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Observe good industrial hygiene practices. Use care in handling/storage.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Store at room temperature. For hospital and professional use only. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS		
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3

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		400 ppm
US. ACGIH Threshold Limit Values		
Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
EXPOSURE CONTROLS		
ENGINEERING CONTROLS:	Ensure there is sufficient ventilation of the area. Ensure all ignition sources are removed.	
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT		
EYE/FACE PROTECTION:	Wear gear as deemed necessary. Follow label directions.	
SKIN PROTECTION		
HAND PROTECTION:	Wear gear as deemed necessary. Follow label directions.	
OTHER:	Follow label directions carefully.	
RESPIRATORY PROTECTION:	Wear positive pressure self-contained breathing apparatus(SCBA).	
THERMAL HAZARDS:	Not available.	
OTHER WORK/HYGIENIC PRACTICE:	When using do not smoke. 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 AND CHEMICAL PROPERTIES		
APPEARANCE:	Moist wipe saturated with colourless liquid	
ODOUR:	Alcoholic	
ODOUR THRESHOLD:	N/A	
pH:	N.D.	
FLASH POINT:	ca. 70°F	
FLAMMABLE OR EXPLOSIVE LIMITS:	LEL: 2% UEL: 12%	
AUTO IGNITION TEMPERATURE:	N.D.	
SOLUBILITY:	Azeotrope	

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PARTITION COEFFICIENT WATER/N-OCTANOL:	N.D.
VOC%:	N/A
VISCOSITY:	N.D.
SPECIFIC GRAVITY:	0.878 (liquid)
DENSITY LBS/GAL:	N/A
FLAMMABILITY:	N.D.
VAPOR PRESSURE:	N.D.
VAPOR DENSITY:	N.D.
BOILING POINT:	>180 °F
BOILING RANGE:	N.D.
EVAPORATION RATE:	N.D.
MELTING POINT:	N/A

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY:	This product may react with strong oxidizing agents.
CHEMICAL STABILITY:	Stable under recommended storage and handling conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
INCOMPATIBLE MATERIALS:	Aldehydes, amines, strong oxidizers, caustics, chlorinated compounds, alkanolamines.
HAZARDOUS DECOMPOSITION PRODUCTS:	May include and are not limited to: Oxides of carbon


SECTION 11 - TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS	
INGESTION:	Not applicable under normal conditions of use.
INHALATION:	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
SKIN CONTACT:	Not expected to be a primary skin irritant.
EYE CONTACT:	Cause serious eye irritation.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.


INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:	Narcotic effects.
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Base on 100% Isopropyl Alcohol (CAS: 67-63-0)

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Acute		
Dermal		
LD50	Rabbit 12800 mg/kg	
Inhalation		
LC50	Rat 16970 mg/L/4h	
Oral		
LD50	Rat 4396 mg/kg	
SKIN CORROSION/IRRITATION:	Prolonged skin contact may cause temporary irritation.	
EXPOSURE MINUTES:	Not available.	
ERYTHEMA VALUE:	Not available.	
OEDEMA VALUE:	Not available.	
SERIOUS EYE DAMAGE/EYE IRRITATION:	Cause serious eye irritation.	
CORNEAL OPACITY VALUE:	Not available.	
IRIS LESION VALUE:	Not available.	
CONJUNCTIVAL REDDENING VALUE:	Not available.	
CONJUNCTIVAL OEDEMA VALUE:	Not available.	
RECOVERY DAYS:	Not available.	
RESPIRATORY OR SKIN SENSITIZATION		
RESPIRATORY SENSITIZATION:	Not available.	
SKIN SENSITIZATION:	This product is not expected to cause skin sensitization.	
GERM CELL MUTAGENICITY:	This product is not expected to have chronic health effects.	
CARCINOGENICITY:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 cfr 1910.1001-1050)		
Not listed.		
REPRODUCTIVE TOXICITY:	This product is not expected to have chronic health effects.	
SPECIFIC TARGET ORGAN TOXICITY -SINGLE EXPOSURE:	Narcotic effects.	
SPECIFIC TARGET ORGAN TOXICITY -REPEATED EXPOSURE:	Not classified.	
ASPIRATION HAZARD:	Not classified.	
CHRONIC EFFECTS:	Prolonged inhalation may be harmful.	
FURTHER INFORMATION:	Not available	
SECTION 12 – ECOLOGICAL INFORMATION		
ECOTOXICITY SEE BELOW		
COMPONENTS	SPECIES	TEST RESULTS
ISOPROPYL ALCOHOL (CAS 67-63-0)		
Algae	IC50	Algae 1000mg/L, 72 Hours

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Crustacea	EC50	Daphnia	13299mg/L, 48 Hours
Aquatic Fish	LC50	Bluegill (Lepomis macrochirus)	>1400mg/L, 96 Hours
PERSISTENCE AND DEGRADABILITY:		No data available.	
BIOACCUMULATIVE POTENTIAL:		No data available.	
PARTITION COEFFICIENT N-OCTANOL/WATER (LOG KOW)			
ISOPROPYL ALCOHOL		0.05	
MOBILITY IN SOIL:		No data available.	
MOBILITY IN GENERAL:		Not available.	
OTHER ADVERSE EFFECTS		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
SECTION 13 - DISPOSABLE CONSIDERATIONS			
DISPOSAL INSTRUCTIONS:		Follow container label directions carefully. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.	
LOCAL DISPOSAL REGULATIONS:		Dispose in accordance with all applicable regulations.	
HAZARDOUS WASTE CODE:		Dispose in accordance with all applicable regulations.	
WASTE FROM RESIDUES/UNUSED PRODUCTS:		Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
CONTAMINATED PACKAGING:		Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.	
SECTION 14 - TRANSPORT INFORMATION			
U.S. DEPARTMENT OF TRANSPORTATION (DOT) :		Not regulated as dangerous goods. Special Provision 47.	
SECTION 15 - REGULATORY INFORMATION			
Safety, health and environmental regulations/legislation specific for the substance or mixture.			
Chemical Safety Assessment			
Chemical safety assessments for substances in this mixture were not carried out.			

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SECTION 16 - OTHER INFORMATION

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

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Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases

Code	Text
H225	Highly flammable liquid and vapour.