



Shield Line

SECTION 1 - PRODUCT IDENTIFICATION				
PRODUCT NAME	Alcohol Prep Pad MPR – 41104 and 41107	DESCRIPTION: Non-woven saturated with 70% isopropyl alcohol		
Recommended Use:		Topical skin antiseptic		
SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS				
HAZARDOUS COMPONENTS (Specific Chemical Identity: Common Names)	CAS #'s	v/v %	Weight/pad	Potential Health Effects
Isopropyl alcohol	67-63-0	70	0.3±0.05g	Skin contact, Eye contact
Water	7732-18-5	30	0.15±0.03 g	
SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)				
EYE:	Irritating, and will injure eye tissue if not removed promptly.			
SKIN:	<ul style="list-style-type: none"> Low order of 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 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 man 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:	Immediately flush eyes with large amount of water for at least 15 minutes. Get prompt medical attention.			
SKIN:	<ul style="list-style-type: none"> Flush with large amounts of water; use available soap. Remove grossly contaminated clothing, including shoes, and launder before reuse. 			
INHALATION (BREATHING):	Using proper respiratory protection, immediately remove the affected victim from exposure, Administrator artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.			



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INGESTION (SWALLOWING):	·If swallowed, induce vomiting.Keep at rest.Get prompt medical attention.
NOTE TO PHYSICIANS:	·Keep victim warm and quiet.
Protection of First-aiders	·Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
SECTION 5 - FIREFIGHTING MEASURES	
FLAMMABLE PROPERTIES:	Flash Point: 12 degree celsius OSHA Flammability Class: 3 LEL/UEL: 2.0/12.7(vol%) Auto ignition Temperature: 399 degree celsius
UNUSUAL FIRE & EXPLOSION HAZARDS:	N/A
EXTINGUISHING MEDIA:	Water spray , foam dry chemical or carbon dioxide
FIREFIGHTING INSTRUCTIONS:	·Use water spray to cool fire exposed surfaces and to protect personnel.Shut off fuel" to fire.If a leak or spill has not ignited,use water spray to disperse the vapours and to protect men attempting to stop a leak. ·Either allow fire to burn under controlled conditions or extinguish with alcohol type foam or dry chemical.Try to cover liquid spills with foam. ·Spill fires may be extinguished by flooding with large amounts of water.
SECTION 6- ACCIDENTAL RELEASE MEASURES	
IF SPILLED/RELEASED:	<ul style="list-style-type: none"> • Eliminate sources of ignition.Warn occupants of downwind areas of fire and exposure hazard.Prevent liquid from entering sewers,watercourses,or low areas. • Dilute contained spill with water.
SECTION 7- HANDLING AND STORAGE	
HANDLING & STORAGE:	<ul style="list-style-type: none"> ·Keep container closed.Handle containers with care. Store in a cool,well-ventilated place away from incompatible materials. ·Do not handle, store or open near an open flame,sources of heat or sources of ignition.Protect material from direct sunlight. ·This material is not a static accumulator but use proper bonding and/or grounding procedures. ·Do not pressurize,cut,heat,or weld containers.Empty product containers may contain product residue. ·Do not reuse empty containers without commercial cleaning or reconditioning.
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 limited.Use explosion-proof ventilation equipment.
RESPIRATORY PROTECTION:	Where concentrations in air may exceed the limits given in this section,it is



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	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 addition, any person visiting an area where this product is handled at processed should at least wear safety glasses with side-shields.
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EYE/FACE PROTECTION:	When handling this product, it is recommended to wear splash resistant goggles.
OTHER PROTECTIVE EQUIPMENT:	No smoking, keep good health habits

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:	12 degree celsius
FLAMMABLE/EXPLOSIVE LIMITS (%):	LEL/UEL: 2.0/12.7 vol%
AUTO IGNITION TEMPERATURE:	399 degree celsius
APPEARANCE:	Clear colourless
PHYSICAL STATE:	Liquid
ODOR:	Alcohol odor
pH:	Not available
VAPOR PRESSURE (mm Hg):	33 mmHg
BOILING POINT:	80.3 Between 82 and 83 degree celsius
FREEZING/MELTING POINT:	-88.5 degree celsius
SOLUBILITY IN WATER:	100 wt%
SPECIFIC GRAVITY:	0.785
EVAPORATION RATE (nBuAc=1):	2.5

SECTION 10 - STABILITY & REACTIVITY

CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	N/A
INCOMPATIBLE MATERIALS:	Strong Oxidizing agents, acids, acid anhydride, halogen
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A



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HAZARDOUS POLYMERIZATION:	N/A
SECTION 11 - TOXICOLOGICAL INFORMATION	
Oral (rat) LD50: 5045 mg/kg eye (rabbit): 12800 mg/kg	
SECTION 12 – ECOLOGICAL INFORMATION	
ENVIRONMENTAL MOBILITY · This product is water soluble and is expected to remain primarily in water. ENVIRONMENTAL DEGRADABILITY · This product biodegrades rapidly and is “readily” biodegradable according to OECD guidelines. · This substance is expected to be removed in a waster water treatment facility. ECOTOXICITY AND BIOACCUMULATION · Low acute toxicity to aquatic organisms is expected.	
SECTION 13 - DISPOSABLE CONSIDERATIONS	
The following advice only applies to the product as supplied. Combination with other material may well indicate another route or disposal.If in doubt,contact the local Authorities. Empty packaging should be taken for recycling,recovery or disposal through a suitably qualified or licenced contractor. Care should in any case be taken to ensure compliance with national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal powers,drains,natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.	
SECTION 14 - TRANSPORT INFORMATION	
Dangerous goods code:32064 UN code:1219 Packaging groups:052	
SECTION 15 - REGULATORY INFORMATION	
COMPONENT	
GOVERNING DIRECTIVE:	Dangerous Substances Directive 67/548/EC,as modified.
Warning: S07/09 Keep container tightly closed and in a well ventilated place S16 Keep away from sources of ignition-No Smoking S24/25 Avoid contact with skin and eyes . S26 In case of contact with eyes,flush immediatly with plenty of water and seek medical advice S33 Take precautionary measures against static discharges S43B In case of fire, use sand,earth,chemical powder or alcohol type foam	

END MSDS