



Material Safety Data Sheet
Wipers Presaturated with 70% Ethanol / 30% DI H₂O

SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY

Product (Trade) Name: SatPax 70% Ethanol / 30% DI H₂O, Gamma SatPax 70% Ethanol / 30% DI H₂O
Product Identification Number: SPX670.011.0909.12, GPX670.011.12
Product Description: Wetted wipers containing Ethanol / Deionized Water Solution
Manufacturer: Berkshire International Ltd, 95 Ewell Road, Surbiton, Surrey, KT6 6AH, UK
Contact Information: Telephone: 0870 757 2877 Fax: 0870 757 2878
Web: www.berkshire.com
Emergency Contact Information: 0870 757 2877

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:	Ethyl Alcohol	Deionized water	Polypropylene Wiper
CAS#	67-17-5	7732-18-5	9003-07-0
vol / vol %	70	30	N/A
ACGIH TLV-TWA (ppm)	1000	N/A	N/A
ACGIH TLV-STEL (ppm)	1250	N/A	N/A
OSHA PEL-TWA (ppm)	1000	N/A	N/A
OSHA PEL-STEL (ppm)	ND	N/A	N/A
Chemical Formula:	C ₂ H ₆ O	H ₂ O	N/A
Symbol	F, Xi	N/A	F, Xi
Synonyms:	Ethyl Alcohol	DI H ₂ O, Water, DI Water, DIW	N/A
Chemical Family:	Alcohol	N/A	N/A
R-Phrases	11-Highly flammable 36-irritating to eyes 67-vapours may cause drowsiness and dizziness.	N/A	N/A
S-Phrases	2,7,16,24,25,26	N/A	N/A

SECTION 3 – HAZARDS IDENTIFICATION

Identification of Hazards: Presaturated wipers with moderate odor. Flammable. May be harmful if swallowed. Eye, skin and respiratory tract irritation.

Inhalation: Inhalation of vapors may irritate the respiratory tract.
Ingestion: Swallowing may have the following effects: Central nervous system depression, nausea/vomiting
Skin Contact: Unlikely to cause appreciable irritation
Eye Contact: Vapors may cause eye irritation.
Medical Conditions Aggravated by Exposure: Persons with pre-existing skin disorders may be more susceptible to skin effects.

SECTION 4 – FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation occurs.
Skin Contact: Flush with water for 15 minutes. Call a physician if irritation develops.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get prompt medical attention.
Ingestion: In the unlikely event of ingestion of a wiper, remove to prevent choking. If conscious give large amounts of water. Get prompt medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Chemical Name	Ethyl Alcohol	Deionized water	Product Information
Flash Point (closed cup)	N/A	N/A	70°F / 21°C
Autoignition Temperature	750°F / 399°C	N/A	ND
Flammable limits in air % by Volume:			
LEL - %	1.3	N/A	ND
UEL - %	19	N/A	ND
Extinguisher Media: Water spray, Carbon Dioxide, Dry Chemical, or Alcohol Foam. Water may be used to cool containers exposed to fire.			
Special Fire Fighting Procedures: Full protective equipment, including pressure demand self-contained breathing apparatus should be worn by firefighters and others exposed to combustion by-products.			
Unusual Fire and Explosion Hazards: Isopropyl alcohol may release vapors that may ignite at or above flash point.			
Appearance and Odor: Wetted white fabric with alcohol odor.		Wiping material is saturated with an OSHA Class IB Flammable liquid.	
NFPA Rating: (estimated)		Health: 0 ; Flammability: 3 ; Reactivity: 0	

SECTION 6 – ACCIDENTAL RELEASE MEASURES

The chance of a significant spill is unlikely, however if a significant amount of liquid is released, ventilate the area and remove all sources of ignition. Appropriate safety protection and vapor inhalation equipment need to be worn by persons cleaning the spill. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Collect liquid in an appropriate container or absorb material with an inert material (vermiculite, dry sand, earth) and place in a chemical waste container. Do not use combustible materials, such as sawdust. Dispose of product in accordance with local, state and federal regulations.

SECTION 7 – HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep container closed. Do not use around sources of heat, sparks or open flames. Avoid breathing vapor.

Storage: Store in a cool ventilated area away from sources of ignition. Do not store in direct sunlight. Keep container closed tightly and away from heat, sparks and flame. Protect against physical damage. Protect from extreme temperatures.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Adequate general exhaust ventilation is recommended. Local exhaust ventilation may be needed for some operations.

Respiratory Protection: If exposure limit is exceeded, use an approved NIOSH facemask with an organic vapor cartridge.

Skin Protection: Use of impervious protective clothing is recommended

Eye Protection: Use approved safety chemical goggles.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Ethyl Alcohol	Deionized Water	Product Information
Appearance	Clear	Clear	Polypropylene Wiper
Color	Colorless	Colorless	White
Odor	Rubbing Alcohol	Odorless	Rubbing Alcohol
Boiling Point:	169°F, 76°C	212°F, 100°C	N/A
Melting Point:	-172°F, -113°C	32°F, 0°C	300°F, 149°C
Vapor Density (Air = 1):	1.59	ND	N/A
Vapor Pressure (mm Hg):	NA	ND	N/A
Evaporation Rate: (BuAc=1)	1.7	ND	N/A
Solubility in Water:	Soluble in water	N/A	N/A

Water Reactive:	Not reactive	N/A	N/A
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SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable.
Incompatibility (Conditions to avoid)	Excessive heat, sources of ignition, direct sunlight, and strong oxidizers.
Materials to avoid	Heat, flame, strong oxidizers, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum, and perchloric acid.
Hazardous decomposition Products	Carbon dioxide, and carbon monoxide.
Hazardous Polymerization	does not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Toxicity: Oral ratLD50: 3450 mg/kg; skin rabbit LD50: 12,800 mg/kg; inhalation rat LC50: 16,000 ppm/8 hour: investigated as a tumorigen, mutagen, reproductive effector.

Chemical Ingredient:	Known Carcinogen	Anticipated Carcinogen	IARC Category
Ethyl alcohol (67-63-0)	No	No	3
Deionized Water (77732-18-5)	No	No	None

SECTION 12 – ECOLOGICAL INFORMATION




Chemical	Ethyl Alcohol
Mobility	Soluble in water. Large volumes may penetrate soil and contaminate ground water
Persistence / degradability	When released in to water, expected to have ½ life between 1 and 10 days.
Bio-accumulation	Not expected to bio-accumulate.
Aquatic toxicity	The LCD50/96-hour values for fish are over 100mg/l. Not toxic to aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

Any disposal of container, contents, and unused contents must be in accordance with federal, local, and state requirements.

SECTION 14 – TRANSPORT INFORMATION

Transportation Mode:	<u>Domestic Land (USDOT):</u>	<u>Domestic Air (USDOT) (UPS Air)</u>	<u>International Ocean (IMDG)</u>	<u>International Air (IATA)</u>	<u>ADR European Road&Rail</u>
Proper Shipping Name	Consumer Commodity	Consumer Commodity	Solids containing flammable liquid, n.o.s (Ethyl alcohol solution)	Solids containing flammable liquid, n.o.s (Eythl alcohol soultion)	Solids containing flammable liquid, n.o.s (Ethyl alcohol solution)
Hazard Class	ORM-D-ID8000	ORM-D-ID8000	4.1	4.1	4.1
UN or ID Number	N/A	N/A	UN3175	UN3175	UN3175
Packing Group:	N/A	N/A	II	II	II
Hazard Label:	N/A	ORM-D-Air	Class 4.1	Class 4.1	Class 4.1
Handling Labels	N/A	N/A	Upright Arrows on 2 opposite sides	Upright Arrows on 2 opposite sides	Upright Arrows on 2 opposite sides
Marine Pollutant	N/A	N/A	No	N/A	N/A

Hazard Marking	ORM-D Upright Arrows 2 opposite sides	ORM-D-Air	LTD. QTY On product label 	LTD. QTY On product label 	LTD. QTY On product label 
Packaging Instruction s:	NA	NA	NA	Cargo Air In UN specified box 417 or Passenger Air Y415 if LTD QTY-see sec.16	P002
Vessel Stowage:	NA	NA	B	NA	NA

SECTION 15 – REGULATORY INFORMATION

Risk Phases	Not classified						
Safety Phases	Not classified						
Environment Listing	Rivers (Prevention of Pollution) Act 1961 Control of Pollution (Special Waste regulations) Act 1980						
European/ International Regulations:	<table border="1"> <tr> <td>Hazard Symbols:</td> <td>XI FR 36</td> </tr> <tr> <td>Risk Phrases:</td> <td>R 11 Highly flammable. R 36 Irritating to eyes. R 67 Vapors may cause drowsiness and dizziness.</td> </tr> <tr> <td>Safety Phrases:</td> <td>S 2 Keep out of reach of children. S 7 Keep container tightly closed. S 16 Keep away from sources of ignition – No smoking. S 24/25 Avoid contact with skin and eyes. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</td> </tr> </table>	Hazard Symbols:	XI FR 36	Risk Phrases:	R 11 Highly flammable. R 36 Irritating to eyes. R 67 Vapors may cause drowsiness and dizziness.	Safety Phrases:	S 2 Keep out of reach of children. S 7 Keep container tightly closed. S 16 Keep away from sources of ignition – No smoking. S 24/25 Avoid contact with skin and eyes. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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Statutory Instruments	Chemicals (Hazard Information and Packaging) Regulations						
Approved Code of Practice	Classification and Labeling of Substances and Preparations Dangerous for Supply						
Guidance Notes	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG (108)						

SECTION 16 – OTHER INFORMATION

Recommended Uses and Restrictions:	Wiping and cleaning various surfaces and components.
NFPA Hazard Code:	
Health:	1
Flammability:	3
Reactivity:	0

The information contained herein is compiled in good faith from manufactures of chemical components, internal reports, and professional publication with respect to contents of this product. This document is intended only as a guide to assist in appropriate precautions and evaluating suitability for handling material by properly trained persons using this product. It is furnished without warranty of any kind, expressed or implied. All information used must be determined by the user to be in accordance with applicable local, state, and federal laws, and regulations.