

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : **AeroShell Flight Jacket Touch & Go**

Manufacturer/Supplier : **SOPUS Products**
PO BOX 4427
Houston, TX 77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number

Spill Information : 877-242-7400

Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration
Isopropyl Alcohol	67-63-0	5.00 - 10.00 %
Ethanol	64-17-5	5.00 - 10.00 %
1-Ethenyl-2-Pyrrolidinone	88-12-0	5.00 - 10.00 %

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Hazy. Liquid.
Safety Hazards	: Combustible liquid.

Health Hazards

Inhalation : No specific hazards under normal use conditions.

Skin Contact : No specific hazards under normal use conditions.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Signs and Symptoms : Ingestion may cause inebriation.

Environmental Hazards : No specific hazards under normal use conditions.

Additional Information : Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under normal conditions.

Inhalation : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin Contact : Wash skin with water using soap if available.

Eye Contact : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

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- Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Advice to Physician** : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : 64.45 °C / 148.01 °F (Cleveland Open Cup)
- Specific Hazards** : Combustible. This product is a mixture of water and a water miscible alcohol, and does not present a significant flammability hazard when used by consumers. Although the flash point of this product may be below 150F, such products are not considered combustible by the Consumer Products Safety Commission (CPSC).
- Additional Advice** : Keep adjacent containers cool by spraying with water. This product does not maintain combustion, although the flash point is below the threshold for classification and supply.

6. ACCIDENTAL RELEASE MEASURES

- Protective measures** : Remove all possible sources of ignition in the surrounding area. Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. No specific measures.
- Clean Up Methods** : Slippery when spilt. Avoid accidents, clean up immediately. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
- Additional Advice** : Observe all relevant local and international regulations.

7. HANDLING AND STORAGE

- General Precautions** : Avoid contact with skin, eyes, and clothing. Wash skin with water using soap if available.
- Handling** : Avoid contact with skin, eyes, and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Use only in well-ventilated areas.
- Storage** : Keep in a cool place. Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep containers closed when not in use.
- Additional Information** : Ensure that all local regulations regarding handling and storage facilities are followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Isopropyl Alcohol	ACGIH	TWA	200 ppm		

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Isopropyl Alcohol	ACGIH	STEL	400 ppm		
Isopropyl Alcohol	OSHA Z1	PEL	400 ppm	980 mg/m3	
Isopropyl Alcohol	OSHA Z1A	TWA	400 ppm	980 mg/m3	
Isopropyl Alcohol	OSHA Z1A	STEL	500 ppm	1,225 mg/m3	
Isopropyl Alcohol	ACGIH	TWA	200 ppm		
Isopropyl Alcohol	ACGIH	STEL	400 ppm		
Ethanol	ACGIH	STEL	1,000 ppm		
Ethanol	OSHA Z1	PEL	1,000 ppm	1,900 mg/m3	
Ethanol	OSHA Z1A	TWA	1,000 ppm	1,900 mg/m3	
1-Ethenyl-2-Pyrrolidinone	ACGIH	TWA	0.05 ppm		

Additional Information : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Exposure Controls : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Wash hands before eating and drinking.

Personal Protective Equipment : Check with respiratory protective equipment suppliers.

Respiratory Protection : No respiratory protection is ordinarily required under normal conditions of use.

Hand Protection : Not normally required.

Eye Protection : Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

Environmental Exposure Controls : Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Hazy. Liquid.
 Pour point : Data not available
 Flash point : 64.45 °C / 148.01 °F (Cleveland Open Cup)
 Specific gravity : 1.00
 Water solubility : Completely Soluble

10. STABILITY AND REACTIVITY

Stability : Stable.

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Conditions to Avoid	: Open flame.
Materials to Avoid	: Not applicable.
Hazardous Decomposition Products	: None expected under normal use conditions.
Hazardous Polymerisation	: No
Sensitivity to Mechanical Impact	: No

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data from components.
Acute Oral Toxicity	: May be harmful if swallowed. LD50 > 2000 - <= 5000 mg/kg , Rat
Acute Dermal Toxicity	: May be harmful in contact with skin. LD50 > 2000 - <= 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	: May be harmful if inhaled. Rat
Skin Irritation	: May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Eye Irritation	: Irritating to eyes.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation to the respiratory system.
Sensitisation	: Not a skin sensitiser.
Mutagenicity	: Not expected to be mutagenic.
Carcinogenicity	: Not expected to be carcinogenic.

Material	Carcinogenicity Classification
Isopropyl Alcohol	: ACGIH Group A4: Not classifiable as a human carcinogen.
Isopropyl Alcohol	: IARC 3: Classification not possible from current data.
Ethanol	: ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.
Ethanol	: NTP: Known carcinogen.
Ethanol	: IARC 1: Human carcinogen.
1-Ethenyl-2-Pyrrolidinone	: ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.
1-Ethenyl-2-Pyrrolidinone	: IARC 3: Classification not possible from current data.

Reproductive and Developmental Toxicity	: Ethanol, a component of this material, may cause birth defects and/or miscarriages.
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12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Mobility	: Disperses in water.
Persistence/degradability	: Data not available
Bioaccumulation	: Data not available
Other Adverse Effects	: Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION**US Department of Transportation Classification (49CFR)**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status**Notification Status**

DSL	All components listed.
TSCA	All components listed.
EINECS	All components listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

AeroShell Flight Jacket Touch & Go ()	Reportable quantity: 2000 lbs
Isopropyl Alcohol (67-63-0)	Reportable quantity: 100 lbs
Ethanol (64-17-5)	Reportable quantity: 100 lbs

Material Safety Data Sheet**SARA Hazard Categories (311/312)**

Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard. Fire Hazard.

SARA Toxic Release Inventory (TRI) (313)

Isopropyl Alcohol (67-63-0)

State Regulatory Status**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This product contains a chemical known to the State of California to cause cancer. Known to the State of California to cause birth defects or other reproductive harm.

New Jersey Right-To-Know Chemical List

Isopropyl Alcohol (67-63-0) Listed.

Ethanol (64-17-5) Listed.
Listed.

Pennsylvania Right-To-Know Chemical List

Isopropyl Alcohol (67-63-0) Environmental hazard.

Ethanol (64-17-5) Listed.
Listed.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) : 2, 2, 0

MSDS Version Number : 4.0

MSDS Effective Date : 04/07/2009

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.

MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

AeroShell Flight Jacket Touch & Go

MSDS# 401263E

Version 4.0

Effective Date 04/07/2009

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

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