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## SAFETY DATA SHEET

**OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING**

**SDS No. 01 Rev0**

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### SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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#### 1.1 Product Identifier

Product Identity	Opsite Moisture Vapour Permeable Spray Dressing
Alternate Names	Opsite Spray
Manufacturer's Product Code	66004978

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Use	Spray dressing for wounds. Always invert can for use. DO NOT spray near eyes. Avoid inhalation. DO NOT spray near naked lights as contents are highly flammable. AVOID USE in confined spaces.
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#### 1.3 Details of the Supplier of the Safety Data Sheet

Company Name	Smith & Nephew Pty Limited
Address	85 Waterloo Road, North Ryde, NSW 2113
Telephone	Customer Service: (02) 9857 3999 Toll Free (Australia): 13 13 60 Toll Free (New Zealand): 0800 807 663
Emergency Telephone	02) 9857 3999 (business hours)

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### SECTION 2 – HAZARDS IDENTIFICATION

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#### 2.1 Classification of the Substance or Mixture

Flam. Aerosol. 1;H222	Extremely flammable aerosol.
Eye Irrit. 2;H319	Causes serious eye irritation.
STOT SE 3;H336	May cause drowsiness or dizziness.

#### 2.2 Label Elements

Exempted from workplace labelling as this product is labelled in accordance with Therapeutic Goods Administration (TGA) requirements and is in a form and package intended for intake or administration to a patient or consumers, or intended for use for therapeutic purposes.

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The product is labelled as follows:



Pictogram:

Signal Word: DANGER

Hazard Statements: H222 Extremely Flammable Aerosol.

Precautionary Statements:

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

[Storage]:

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Substance/ Mixture: Mixture

Chemical Name/Chemical Designations	Concentration	GHS Classification
Acetone (solvent) CAS Number: 67-64-1	< 35%	Flammable liquid: Cat 2, H225 Eye Irritant: Cat 2, H319 STOT-SE Cat 3, H336
Dimethyl ether (propellant) CAS Number: 115-10-6	<26%	Flammable gas: Cat 1, H220 Press. Gas (liquefied gas), H280
Isopropyl Alcohol (solvent) CAS Number: 67-63-0	<11%	Flammable liquid: Cat 2, H225 Eye Irritant: Cat 2, H319 STOT-SE Cat 3, H336
n-Butane (propellant)	<11%	Flammable gas: Cat 1, H220

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CAS Number: 106-97-8		Press. Gas (liquefied gas), H280
Propane (propellant) CAS-No. 74-98-6	<5%	Flammable gas: Cat 1, H220 Press. Gas (liquefied gas), H280
Ethyl Acetate (solvent) CAS-No. 141-78-6	<5%	Flammable liquid: Cat 2, H225 Eye Irritant: Cat 2, H319 STOT-SE Cat 3, H336
Isobutane (propellant) CAS-No. 75-28-5	<5%	Flammable gas: Cat 1, H220 Press. Gas (liquefied gas), H280

Contains no other components or impurities which will influence the classification of the product.  
Full text of the statements listed above is given in section 16.

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## SECTION 4 – FIRST AID MEASURES

### 4.1 Description of First Aid Measures

<b>General</b>	Remove patient to uncontaminated area wearing self-contained breathing apparatus. Keep patient warm and rested, seek medical aid.
<b>Inhalation</b>	Remove to fresh air, if unconscious move to recovery position. Seek medical aid.
<b>Eyes</b>	Remove contact lens(es) if present and easy to do. Flush with clean water for 10 minutes. Seek medical aid.
<b>Skin</b>	No first aid should be needed.
<b>Ingestion</b>	Do not induce vomiting. If patient vomits turn to recovery position. Give water to drink. Seek medical aid.

### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

No health hazard is anticipated if used as directed, however avoid contact with eyes and inhalation. In low concentrations inhalation may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of coordination. Extreme exposure through inhalation may cause asphyxiation, of which victim may not be aware. Acetone, ethyl acetate and dimethyl ether can degrease the skin. Prolonged inhalation can cause kidney and liver damage.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

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## SECTION 5 – FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media

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Suitable extinguishing media

Use water spray, dry powder or vapourising liquid fire fighting equipment.

Unsuitable extinguishing media

Solid water stream

#### 5.2 Special Hazards Arising from the Substance or Mixture

Containers may explode if incinerated. Undamaged aerosols are unlikely to be the cause of fire, but they can be ignited in a fire situation and contribute fuel to a fire. Aerosols containing flammable materials may produce a fierce fire with toxic gases evolved such as carbon monoxide and carbon dioxide.

#### 5.3 Advice for Fire-Fighters

Wear self-contained breathing apparatus.

#### 5.4 Further Information

Use water spray to cool unopened containers.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Evacuate area. Ensure adequate air ventilation. Wear respiratory protection. Eliminate all sources of ignition.

#### 6.2 Environmental Precautions

Prevent leakage or further spillage if safe to do so. Prevent material from entering drains or water courses. Advise authorities if material has entered water course of sewer or has contaminated soil or vegetation.

#### 6.3 Methods and Material for Containment and Cleaning Up

Contain and absorb using earth, sand or other inert material. Transfer to suitable containers for recovery or disposal according to local regulations then flush area with plenty of water.

#### 6.4 Reference to other sections

None

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#### SECTION 7 – HANDLING AND STORAGE

##### 7.1 Precautions for Safe Handling

Handle carefully. Avoid puncturing the can(s). The wearing of eye protection and gloves is advisable. Avoid use in a confined space. Avoid inhalation of vapour or mist.

##### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool, dry place. Keep away from sources of ignition. Do not store near exits. Avoid storing in basements. Please note the product contains acetone which may react with non-latex / synthetic gloves.

##### 7.3 Specific End Use(s)

See section 1.2.

#### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

##### 8.1 Control Parameters

Exposure

CAS No.	Ingredient	Value	Source
67-64-1	Acetone	STEL 1000ppm TWA 500ppm	Australia national exposure standards- NOHSC/ HSIS
		STEL 1500ppm TWA 500ppm	UK EH40 Workplace exposure limits and EC directive 2000/39/EC (indicative)
115-10-6	Dimethyl ether	TWA 400ppm STEL 500ppm	Australia national exposure standards- NOHSC/ HSIS
		LTEL 400ppm STEL 500ppm	UK EH40 Workplace exposure limits
67-63-0	Isopropyl Alcohol	STEL 500ppm, TWA 400ppm	Australia national exposure standards- NOHSC/ HSIS UK EH40 Workplace exposure limits
106-97-8	n-Butane	TWA 800ppm	Australia national exposure standards- NOHSC/ HSIS
		LTEL 600ppm STEL 750ppm TLV 800ppm	UK EH40 Workplace exposure limits ACGIH 1995-1996
74-98-6	Propane	TLV 1000ppm	ACGIH 2009
141-78-6	Ethyl Acetate	STEL 400ppm, TWA 200ppm	Australia national exposure standards- NOHSC/ HSIS

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			UK EH40 Workplace exposure limits
75-28-5	Isobutane	TWA 800ppm	UK EH40 Workplace exposure limits

#### 8.2 Exposure Controls

Ensure adequate ventilation. Do not smoke whilst handling product.

#### Personal protective Equipment

The wearing of eye protection and gloves is advisable.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Component	Acetone	Dimethyl Ether	Isopropyl alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
Appearance	Clear, colourless liquid	Colourless gas	Colourless liquid	Colourless gas	Colourless gas	Clear, Colourless liquid	Colourless gas
Odour	No data	Ether-like	Alcohol-like	Sweetish	Sweetish	No data	Sweetish
Odour Threshold	No data	No data	No data	No data	No data	No data	No data
pH	No data	No data	No data	No data	No data	No data	No data
Melting Point	-94 °C	-141.5 °C	-89.5 °C	-138 °C	-188 °C	-84 °C	-159 °C
Boiling Point	56°C	-24.8 °C	82 °C	-0.5 °C	- 42.1 °C	76.5 – 77.5 °C	- 12 °C
Flash Point	-17.0 °C	N/A	12.0 °C	N/A	N/A	-3.0 °C	N/A
Evaporation Rate	No data	N/A	3.0	N/A	No data	No data	N/A
Flammability	No data	See below	No data	See below	See below	No data	See below
Upper/Lower Flammability or Explosive	Upper Exp: 13% (V) Lower Exp:	Upper Fl: 32% (V) Lower Fl:	Upper Exp: 12.7% (V) Lower Exp:	Upper Fl: 9.4% (V) Lower Fl:	Upper Fl: 10.8% (V) Lower Fl:	Upper Exp: 11.5% (V) Lower	Upper Fl: 9.4% (V) Lower Fl:

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Limits	2% (V)	2.7% (V)	2% (V)	1.4% (V)	1.7% (V)	Exp: 2.2% (V)	1.5% (V)
Vapour Pressure	245.3 hPa at 20.0°C	5.1 bar at 20°C	43.2 hPa at 20.0°C	2bar at 20.0°C	8.3bar at 20.0°C	97.3hPa at 20.0°C	3 bar at 20°C
Vapour Density	No data	1.6	No data	2.1	1.5	No data	2
Relative Density	0.791 g/cm <sup>3</sup> at 25°C	No data	0.785 g/cm <sup>3</sup> at 25°C	0.6	No data	0.902 g/mL at 25°C	No data
Water Solubility	Completely miscible	No data	Completely soluble	88 mg/L	75 mg/L	Soluble	54 mg/L
Partition coefficient n-octanol/water	Log Pow: -0.24	Log Pow: 0.1	Log Pow: 0.05	Log Pow: 2.89	Log Pow: 2.36	Log Pow: 0.73	Log Pow: 2.76
Auto-ignition temperature	465 °C	235 °C	425°C	365 °C	470°C	427°C	460°C
Decomposition temperature	No data	No data	No data	No data	No data	No data	No data
Viscosity	No data	No data	No data	No data	No data	No data	No data
Explosive properties	No data	Not explosive	No data	No data	Not explosive	No data	Not explosive
Oxidising properties	No data	No data	No data	No data	N/A	No data	No data

#### 9.2 Other Information

No other relevant information.

## SECTION 10 – STABILITY AND REACTIVITY

### 10.1 Reactivity

Unreactive under normal conditions

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#### 10.2 Chemical Stability

Stable under normal/recommended storage conditions.

#### 10.3 Possibility of Hazardous Reactions

No data available.

#### 10.4 Conditions to Avoid

Avoid strong acids, strong bases, strong oxidising agents. Heat, flames, sparks. Extremes of temperature and direct sunlight.

#### 10.5 Incompatible Materials

The product contains acetone which may react with non-latex / synthetic gloves.

#### 10.6 Hazardous Decomposition Products

Acetic acid, combustion will generate oxides of carbon.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

Component	Acetone	Dimethyl Ether	Isopropyl alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
Acute toxicity LD50 Rat Oral	5800 mg/kg	N/A	5045 mg/kg	N/A	N/A	5620 mg/kg	N/A
Inhalation LC50 Rat	Rat 8h: 50100 mg/m <sup>3</sup>	Rat 4h: 164000ppm	Rat 8h: 16000 ppm	Rat 4h: 658mg/L	Rat 0.25h: 800000 ppm	Mouse, 2h: 45000 mg/m <sup>3</sup>	Mouse, 1h: 52 mg/L Rat, 4h: >31 mg/L
LD50 Dermal	Guinea pig: 7426 mg/kg	No data	Rabbit: 12800 mg/kg	No data	No data	Rabbit: >180000 mg/kg	No data
Skin corrosion / irritation	Rabbit 24h: Mild skin irritation	Not classified as irritant	Rabbit 24h: Mild skin irritation	Not classified as irritant	Not classified as irritant	No data	Not classified as irritant
Eye damage / irritation	Rabbit 24h: irritation	Not classified as irritant	Rabbit 24h: irritation	Not classified as irritant	No data	No data	Not classified as irritant



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Respiratory or skin sensitisation	Chronic exposure may cause dermatitis	No known effects	No data	No known effects	No known effects	No data	No known effects
Germ cell mutagenicity	No data	No evidence of mutagenicity	No data	No evidence of mutagenicity	No evidence of mutagenicity	No data	No evidence of mutagenicity
Carcinogenicity	Not identified as carcinogen	Not identified as carcinogen	Not identified as carcinogen	Not identified as carcinogen	Not identified as carcinogen	Not identified as carcinogen	Not identified as carcinogen
Reproductive toxicity	No data	No indication of toxic effects	No data	No indication of toxic effects	Rat, inhalation: 3000ppm NOEAC.	No data	No indication of toxic effects
Specific target organ toxicity – single exposure	No data	No data	No data	No data	No data	No data	No data
Specific target organ toxicity – repeated exposure	No data	No data	No data	No data	Rat, inhalation: 4000ppm NOEAC, 12000ppm LOEAC	No data	No data
Aspiration hazard	No data	No data	No data	No data	No data	No data	No data

**11.2 Additional Toxicological Information**

Studies on Opsite Spray product;

Guinea pig maximisation test: no evidence of delayed contact hypersensitivity.

Rabbit primary irritation test: Non-irritant.

Cytotoxicity, subchronic toxicity, genotoxicity: No data available.

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### SECTION 12 – ECOLOGICAL INFORMATION

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#### 12.1 Ecotoxicity

Component	Acetone	Dimethyl Ether	Isopropyl alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
Toxicity to fish	Rainbow trout 96h LC50: 5540 mg/L	Guppy 96h LC50: >4000 mg/L	Fathead minnow 96h LC50: 96400 mg/L	Freshwater 96h LC50: 24.11 mg/L	Fish 96h LC50: 24mg/L	Rainbow trout 96h LC50: 350-600 mg/L	Freshwater 96h LC50: 27.98 mg/L
Toxicity to daphnia and other aquatic invertebrates	Water flea 48 h EC50: 13500 mg/L	Water flea 48 h EC50: >4000 mg/L	Water flea 24 h EC50: 6851 mg/L	Water flea 48h LC50: 14.22 mg/L	Water flea 48h EC50: 7 mg/L	Water flea 24h EC50: 2300 - 3090 mg/L	Water flea 48h LC50: 16.33 mg/L

#### 12.2 Persistence and Degradability

There is no data available.

#### 12.3 Bioaccumulative Potential

No data available.

#### 12.4 Mobility in Soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

Not required/ not conducted.

#### 12.6 Other Adverse Effects

No data available

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### SECTION 13 – DISPOSAL CONSIDERATIONS

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#### 13.1 Waste Treatment Methods

Dispose of in accordance with local waste regulations.  
Never incinerate, even when empty. Local authorities may allow cans for recycling, landfill or normal refuse. May require notification for large quantities.

### SECTION 14 – TRANSPORT INFORMATION

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Classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Goods by Road and Rail.

14.1 UN Number	UN1950
14.2 UN Proper Shipping Name	AEROSOLS, FLAMMABLE
14.3 Transport Hazard Class	2.1
14.4 Packing Group	II
14.5 Environmental Hazard	N/A
14.6 Special Precautions for User	ADR Tunnel Restriction code (D)

### SECTION 15 – REGULATORY INFORMATION

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This product is registered as a medical device in Australia.

Poison Schedule      Not a Scheduled Poison.

### SECTION 16 – OTHER INFORMATION

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The full text of the phrases appearing in section 3 is:

Eye Irrit. Eye irritation  
Flam. Liq. Flammable Liquid  
H220 Extremely Flammable Gas

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H222 Extremely Flammable Aerosol  
H225 Highly flammable liquid and vapour  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation  
H336 May cause drowsiness or dizziness  
STOT SE Specific Target Organ Toxicity – single exposure

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

*The information and recommendations contained herein are based upon data believed to be correct and in accordance with the requirements of the Work Health and Safety Regulations. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This information is provided specifically in order to assist users of the product to make their assessment of health risks. Provision of this information does not preclude users from seeking advice from other sources. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders. The information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contraindications and precautions for the treatment of the patient.*

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**REVISION HISTORY**

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Revision Number	Description of Change	Effective Date
0	New Issue in GHS format	20-12-2016