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**SAFETY DATA SHEET**

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
 Date of Issue: 07 February 2022

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**SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY**


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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 No.	Customer Service: (02) 9857 3999 Toll Free (Australia): 13 13 60 Toll Free (New Zealand): 0800 807 663
Emergency Tel. Nos.	(02) 9857 3999 (business hours)

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**SECTION 2 – HAZARD(S) IDENTIFICATION**


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**2.1 Classification of the Substance or Mixture**

Classification according to Regulation (EC) no. 1272/2008, based on extremely flammable aerosol / worst case component:

Extremely Flammable Aerosol:	Category 1	H222
Eye Irritant:	Category 2	H319
STOT-SE:	Category 3	H336
Pressurized Container:	May burst if heated	H229

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**SAFETY DATA SHEET**

**OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1**  
**Date of Issue: 07 February 2022**

---

P102 Keep out of reach of children  
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  
P410 & 412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.  
P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.

**2.2 Label Elements****Pictogram:****Signal Word: DANGER****Hazard Statements:**

H222 Extremely Flammable Aerosol  
H229 Pressurized Container: May Burst if Heated  
H319 Eye Irritant  
H336 May cause drowsiness or dizziness

**Precautionary Statements:**

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  
P410 & 412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.  
P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
Date of Issue: 07 February 2022

**SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS**

Chemical Name/Chemical Designations	Concentration /Weight%	GHS Classification
Acetone (Solvent) Formula: C <sub>3</sub> H <sub>6</sub> O Molecular weight: 58.08 g/mol CAS-No. 67-64-1 EC-No. 200-662-2 Index-No. 606-001-00-8 REACH Registration No. 01-2119471330-49-xxxx	NMT 35%	(EC) No 1272/2008: Flammable liquid: Cat 2 Eye Irritant: Cat 2 STOT-SE Cat 3 H225 Highly Flammable H319 Eye Irritant H336 May cause drowsiness or dizziness
Dimethyl ether (propellant) Formula: C <sub>2</sub> H <sub>6</sub> O CAS-No. 115-10-6 EC-No. 204-065-8 Index-No. 603-019-00-8 REACH Registration No. 01-2119472128-37-xxxx	NMT 26%	(EC) No 1272/2008: Flammable gas: Cat 1 Press. Gas (liquefied gas) H220 Extremely Flammable Gas H280 Gas under pressure
Isopropanol (solvent) Formula: C <sub>3</sub> H <sub>8</sub> O Molecular weight: 60.10 g/mol CAS-No. 67-63-0 EC-No. 200-661-7 Index-No. 603-117-00-0 REACH Registration No. Not available	NMT 11%	(EC) No 1272/2008: Flammable liquid: Cat 2 Eye Irritant: Cat 2 STOT-SE Cat 3 H225 Highly Flammable H319 Eye Irritant H336 May cause drowsiness or dizziness
n-Butane (propellant) Formula: C <sub>4</sub> H <sub>10</sub> CAS-No. 106-97-8 EC-No. 203-448-7 Index-No. 601-004-00-0 REACH Registration No. 01-2119474691-32-xxxx	NMT 11%	(EC) No 1272/2008: Flammable gas: Cat 1 Press. Gas (liquefied gas) H220 Extremely Flammable Gas H280 Gas under pressure

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
Date of Issue: 07 February 2022

Chemical Name/Chemical Designations	Concentration /Weight%	GHS Classification
Propane (propellant) Formula: C <sub>3</sub> H <sub>8</sub> CAS-No. 74-98-6 EC-No. 200-827-9 Index-No. 601-003-00-5 REACH Registration No. 01-2119486944-21-xxxx	NMT 5%	(EC) No 1272/2008: Flammable gas: Cat 1 Press. Gas (liquefied gas) H220 Extremely Flammable Gas H280 Gas under pressure
Ethyl Acetate (solvent) Formula: C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> Molecular weight: 88.11 g/mol CAS-No. 141-78-6 EC-No. 205-500-4 Index-No. 607-022-00-5 REACH Registration No. 01-2119475103-46-xxxx	NMT 5%	(EC) No 1272/2008: Flammable liquid: Cat 2 Eye Irritant: Cat 2 STOT-SE Cat 3 H225 Highly Flammable H319 Eye Irritant H336 May cause drowsiness or dizziness
Isobutane (propellant) Formula: C <sub>4</sub> H <sub>10</sub> CAS-No. 72-28-5 EC-No. 200-857-2 Index-No. 601-004-00-0 REACH Registration No. 01-2119485395-27-xxxx	NMT 5%	(EC) No 1272/2008: Flammable gas: Cat 1 Press. Gas (liquefied gas) H220 Extremely Flammable Gas H280 Gas under pressure

## SECTION 4 – FIRST AID MEASURES

### 4.1 Description of First Aid Measures

<b>General</b>	Remove victim to uncontaminated area. Keep victim 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 so. Flush with clean water for 10 minutes. Seek medical aid.
<b>Skin</b>	Not anticipated if used as directed. If skin reddening occurs, wash skin with soap and water, seek medical aid.
<b>Ingestion</b>	Do not induce vomiting. If patient vomits turn to recovery position. Give water to drink. Seek medical aid.

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**SAFETY DATA SHEET**

**OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING**      **SDS No. 01 Rev1**  
**Date of Issue: 07 February 2022**

---

**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.

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

None.

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**SECTION 5 – FIREFIGHTING MEASURES**

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**5.1 Extinguishing Media**

**Suitable extinguishing media:** Use water spray, dry powder or vaporizing 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. 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 escaping material from entering drains or water courses. Advise authorities if material has entered water course or 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.

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**SAFETY DATA SHEET**

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
Date of Issue: 07 February 2022

---

If product is undamaged, treat mechanically and sweep into suitable containers. See Section 13 for suitable disposal considerations.

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**SECTION 7 – HANDLING AND STORAGE**


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**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. Protect from heat and direct sunlight. 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

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**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**


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**8.1 Control Parameter**

Component	Control Parameters	Basis
Acetone	STEL 1000ppm TWA 500ppm	Australian national exposure standards- NOHSC/ HSIS
	STEL 1500ppm TWA 500ppm	UK EH40 Workplace exposure limits
Dimethyl ether	TWA 400ppm STEL 500ppm	Australian national exposure standards- NOHSC/ HSIS
	LTEL 400ppm STEL 500ppm	UK EH40 Workplace exposure limits

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

Component	Control Parameters	Basis
<b>Isopropyl Alcohol</b>	STEL 500ppm TWA 400ppm	Australian national exposure standards- NOHSC/ HSIS UK EH40 Workplace exposure limits
<b>n-Butane</b>	TWA 800ppm	Australian national exposure standards- NOHSC/ HSIS
	LTEL 600ppm STEL 750ppm TLV 1000ppm	UK EH40 Workplace exposure limits ACGIH 2012
<b>Propane</b>	As LPG: LTEL 1000ppm STEL 1250ppm	UK EH40 Workplace exposure limits
<b>Ethyl Acetate</b>	STEL 400ppm TWA 200ppm	Australian national exposure standards- NOHSC/ HSIS UK EH40 Workplace exposure limits
<b>Isobutane</b>	TWA 800ppm	Based on worst case EU DFR MAK List (Germany/ Romania) ACGIH 1979

**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.

Opsite Spray when used in a medical situation is relatively safe to work with occasionally or in small amounts and the normal gloves used in hospitals are acceptable. With sensitive skin, or prolonged exposure to the acetone in the spray, there is benefit from wearing butyl rubber gloves.

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

**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
<b>Appearance</b>	Clear, colourless liquid	Colourless gas	Colourless liquid	Colourless gas	Colourless gas	Clear, colourless liquid	Colourless gas
<b>Odor</b>	No data	Ether-like	Alcohol-like	Sweetish	Sweetish	No data	Sweetish
<b>Odor threshold</b>	No data	No data	No data	No data	No data	No data	No data
<b>pH</b>	No data	No data	No data	No data	No data	No data	No data
<b>Melting point / freezing point</b>	-94 C	-141.5 C	-89.5 C	-138 C	-188 C	-84 C	-159 C
<b>Initial boiling point and boiling range</b>	56 C	-24.8 C	82 C	-0.5 C	-42.1 C	76.5-77.5 C	-12 C
<b>Flash Point</b>	-17 C	N/A	12 C	N/A	N/A	-3 C	N/A
<b>Evaporation rate</b>	No data	N/A	3 C	N/A	No data	No data	N/A
<b>Flammability (solid, gas)</b>	No data	See below	No data	See below	See below	No data	See below
<b>Upper/lower flammability or explosive limits</b>	Upper Exp: 13% (V) Lower Exp: 2% (V)	Upper FI: 32% (V) Lower FI: 2.7% (V)	Upper Exp: 12.7% (V) Lower Exp: 2% (V)	Upper FI: 9.4% (V) Lower FI: 1.4% (V)	Upper FI: 10.8% (V) Lower FI: 1.7% (V)	Upper Exp: 11.5% (V) Lower Exp: 2.2% (V)	Upper FI: 9.4% (V) Lower FI: 1.5% (V)
<b>Vapor pressure (Pa)</b>	245.3 hPa at 20.0 C	5.1 bar at 20 C	43.2 hPa at 20 C	2bar at 20 C	8.3 bar at 20 C	97.3 hPa at 20 C	3 bar at 20 C
<b>Vapor Density</b>	No data	1.6	No data	2.1	1.5	No data	2
<b>Relative Density</b>	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



## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

Component	Acetone	Dimethyl Ether	Isopropyl Alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
<b>Solubility in Water</b>	Completely miscible	No data	0.785 g/cm <sup>3</sup> at 25 C	88 mg/L	75 mg/L	Soluble	54 mg/L
<b>Partition coefficient n-octanol/water</b>	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
<b>Auto-ignition temperature</b>	465 C	235 C	425 C	365 C	470 C	427 C	460 C
<b>Decomposition temperature</b>	No data	No data	No data	No data	No data	No data	No data
<b>Viscosity</b>	No data	No data	No data	No data	No data	No data	No data

**9.2 Other Information**

N/A

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**SECTION 10 – STABILITY AND REACTIVITY**


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**10.1 Reactivity**

Unreactive under normal conditions

**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 and strong oxidizing 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.

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

**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
<b>Acute toxicity LD50 Rat Oral</b>	5800 mg/kg	N/A	5045 mg/kg	N/A	N/A	5620 mg/kg	N/A
<b>Inhalation LC50 Rat</b>	Rat 8h: 50100 mg/m <sup>3</sup>	Rat 4h: 164000ppm	Rat 8h: 16000 ppm	Rat 4h: 658 mg/L	Rat 0.25h: 800000ppm	Mouse 2h: 45000 mg/m <sup>3</sup>	Mouse, 1h: 52 mg/L Rat 4h: >31 mg/L
<b>LD50 Dermal</b>	Guinea pig: 7426 mg/kg	No data	Rabbit: 12800 mg/kg	No data	No data	Rabbit: >180000 mg/kg	No data
<b>Skin corrosion/irritation</b>	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
<b>Eye damage/irritation</b>	Rabbit 24h: irritation	Not classified as irritant	Rabbit 24h: irritation	Not classified as irritant	No data	No data	Not classified as irritant
<b>Respiratory or skin sensitization</b>	Chronic exposure may cause dermatitis	No known effects	No data	No known effects	No known effects	No data	No known effects

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

Component	Acetone	Dimethyl Ether	Isopropyl Alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
<b>Germ cell mutagenicity</b>	No data	No evidence of mutagenicity	No data	No evidence of mutagenicity	No evidence of mutagenicity	No data	No evidence of mutagenicity
<b>Carcinogenicity</b>	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
<b>Reproductive toxicity</b>	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
<b>Specific target organ toxicity-single exposure</b>	No data	No data	No data	No data	No data	No data	No data
<b>Specific target organ toxicity-repeated exposure</b>	No data	No data	No data	No data	Rat Inhalation: 4000ppm NOEAC, 12000ppm	No data	No data
<b>Aspiration Hazard</b>	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.

## SAFETY DATA SHEET

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING SDS No. 01 Rev1  
Date of Issue: 07 February 2022

**SECTION 12 – ECOLOGICAL INFORMATION**
**12.1 Ecotoxicity**

Component	Acetone	Dimethyl Ether	Isopropyl Alcohol	n-Butane	Propane	Ethyl Acetate	Isobutane
<b>Toxicity to fish</b>	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
<b>Toxicity to daphnia and other aquatic invertebrates</b>	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**

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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**SAFETY DATA SHEET**

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
Date of Issue: 07 February 2022

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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.

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**SECTION 14 – TRANSPORT INFORMATION**

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<b>14.1 UN Number</b>	UN1950
<b>14.2 UN Proper Shipping Name</b>	AEROSOLS, FLAMMABLE
<b>14.3 Transport Hazard Class</b>	2.1
<b>14.4 Packing Group</b>	II
<b>14.5 Environmental Hazard</b>	N/A
<b>14.6 Special Precautions for User</b>	ADR Tunnel Restriction Code (D)
<b>14.7 Hazchem Code</b>	N/A

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**SECTION 15 – REGULATORY INFORMATION**

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This product is registered as a medical device in Australia.

Poison Schedule Not a Scheduled Poison.

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**SECTION 16 – OTHER INFORMATION**

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The full text of the phrases appearing in other sections:

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable Liquid
H220	Extremely Flammable Gas
H222	Extremely Flammable Aerosol

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**SAFETY DATA SHEET**

OPSITE MOISTURE VAPOUR PERMEABLE SPRAY DRESSING      SDS No. 01 Rev1  
Date of Issue: 07 February 2022

---

H225	Highly flammable liquid and vapour
H229	Pressurized container: May Burst if Heated
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

*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
1	Revised	07-02-2022