

SAFETY DATA SHEET
Temati Powerspray Aerosol
According to 1907/2006/EC, Article 31

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name Temati Powerspray Aerosol
Container size 500ml Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Spray Adhesive

1.3. Details of the supplier of the safety data sheet

Supplier Temati UK
Unit 3A
Isabella Court
Millenium Business Park
Mansfield
Nottinghamshire NG19 2JZ
Tel: 01623 636169
Fax: 01623 644816

1.4. Emergency telephone number

Emergency telephone Temati - +44 (0) 1623 636 169 (Mon-Fri 9:00-17:00)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification**

Physical hazards Aerosol 1 - H222, H229
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) F+;R12. R52/53,R67.

Human health In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Environmental The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical The product is extremely flammable. Closed containers can burst violently when heated, due to excess pressure build-up.

2.2. Label elements**Pictogram**

Signal word Danger

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Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing vapour/spray. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container in accordance with national regulations.
Contains	ACETONE, LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PROPANE		10-30%
CAS number: 74-98-6	EC number: 200-827-9	REACH registration number: 01-2119486944-21
Classification Flam. Gas 1 - H220 Press. Gas, Compressed - H280	Classification (67/548/EEC or 1999/45/EC) F+;R12	
BUTANE/ISOBUTANE		10-30%
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-2119474691-32
Classification Flam. Gas 1 - H220 Press. Gas, Compressed - H280	Classification (67/548/EEC or 1999/45/EC) F+;R12.	
ACETONE		10-30%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R66 R67	

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LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		10-30%
CAS number: 64742-49-0	EC number: 265-151-9	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	Xn;R65. Xi;R38. F;R11. N;R51/53.	
Skin Irrit. 2 - H315		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once.
Inhalation	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Coughing, chest tightness, feeling of chest pressure. Vapours may cause headache, fatigue, dizziness and nausea. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
Ingestion	There may be soreness and redness of the mouth and throat.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. Profuse watering of the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Cool containers with water spray.
Unsuitable extinguishing media	Do not use a solid water stream.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
Hazardous combustion products	If involved in a fire the following toxic and/or corrosive fumes maybe produced by thermal decomposition:
5.3. Advice for firefighters	
Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Be aware of danger of explosion.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. Ensure suitable respiratory protection is worn during removal of spillages in confined areas. No smoking, sparks, flames or other sources of ignition near spillage.
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6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. PERSONAL PROTECTION. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from heat, sparks and open flame. Pressurised container: Must not be exposed to temperatures above 50°C. Store in a cool and well-ventilated place. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from oxidising materials, heat and flames.
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Storage class	Extremely Flammable Aerosol
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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Usage description

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

PROPANE

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1800 mg/m³

Short-term exposure limit (15-minute): WEL

BUTANE/ISOBUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm

Short-term exposure limit (15-minute): WEL 750 ppm

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

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Long-term exposure limit (8-hour TWA): 1200 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

ACETONE (CAS: 67-64-1)

DNEL

Consumer - Oral; Long term : 62 mg/kg/day
 Consumer - Dermal; Long term : 62 mg/kg/day
 Industry - Dermal; Long term : 186 mg/kg/day
 Consumer - Inhalation; Long term : 200 mg/m³
 Industry - Inhalation; Short term : 2420 mg/m³
 Industry - Inhalation; Long term : 1210

PNEC

- Fresh water; 10.6 mg/l
- Marine water; 1.06 mg/l
- Intermittent release; 21 mg/l
- Soil; 29.5 mg/l
- Sediment (Marinewater); 3.04 mg/kg
- Sediment (Freshwater); 30.4 mg/kg

8.2. Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Gloves are recommended for prolonged use. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear suitable gloves if prolonged or repeated skin contact is likely

Hygiene measures Provide eyewash station and safety shower. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol container containing a mixture of active ingredients, solvents and propellants
Colour	Colourless to amber.
Odour	Organic solvents.
Odour threshold	
pH	
Flash point	<-40 Deg. C°C
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8% Upper flammable/explosive limit: 9.5%
Relative density	~0.8 @ @ 20 Deg.C°C
Solubility(ies)	Slightly soluble in water.
Auto-ignition temperature	410-580 Deg.C°C
Viscosity	~100 mPa s @ 20 Deg.C°C
Explosive properties	Not determined. More sensitive to shock than m-dinitrobenzene: No
Comments	A flash point method is not available for aerosols but the major hazardous component, the Propellant has a flash point of <-40 C with flammability limits of 9.5% vol. upper and 1.8% vol. lower.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products In combustion emits toxic fumes

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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General information	Contains organic solvents The product contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
Inhalation	Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. High exposures may cause an abnormal heart rhythm and prove suddenly fatal. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation.
Ingestion	May cause discomfort if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Skin contact	Skin irritation should not occur when used as recommended. Prolonged and frequent contact may cause redness and irritation.
Eye contact	May cause eye irritation.
Acute and chronic health hazards	Vapour Concentrations above the recommended exposure level are irritating to the eyes and respiratory tract, may cause headaches and dizziness are anaesthetic and may have central nervous system effects. Concentrating and inhaling the gas/spray can lead to abnormal heart rhythms and possibly death.
Route of entry	Inhalation
Target organs	Central nervous system Respiratory system, lungs
Medical symptoms	Narcotic effect. Drowsiness. Dizziness.

Toxicological information on ingredients.

PROPANE

Acute toxicity - inhalation

Acute toxicity inhalation 20.0
(LC₅₀ vapours mg/l)

ACETONE

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0
mg/kg)

Species Rabbit

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

ACETONE

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours, 48 hours: 12600 mg/l, Daphnia magna
EC₅₀, 48 hours: 8300 mg/l, Daphnia magna

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Acute toxicity - aquatic plants IC₅₀, 72 hours: >100 mg/l, Algae

Chronic toxicity - aquatic invertebrates NOEC, 28 days, 28 days: >10<100 mg/l, Freshwater invertebrates

12.2. Persistence and degradability

Persistence and degradability No data available. Biodegradable in part only.

Ecological information on ingredients.

PROPANE

Persistence and degradability Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

ACETONE

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Volatile

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not identified as a PBT substance.

Ecological information on ingredients.

PROPANE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ACETONE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Ensure containers are empty before discarding (explosion risk). Do not puncture or incinerate, even when empty. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

Waste class Flammable aerosol. Full or Partially Empty Aerosol: 16 05 04, Empty Aerosol: 15 01 10 (Containing hazardous residues). Empty Aerosol: 15 01 04 (No hazardous residues).

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SECTION 14: Transport information

General

This product is packed in accordance with the Limited quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow the transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed must show the following.

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class	2,5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1

14.4. Packing group

ADR/RID packing group	#
IMDG packing group	#
ICAO packing group	#

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-D, S-U
Tunnel restriction code	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	ECHA: Guidance on the Compilation of safety data sheets. (V1.1, December 2011)
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Technical Service Manager
Revision date	02/07/2014
Revision	2
Supersedes date	01/11/2012
SDS number	20330
Risk phrases in full	R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R38 Irritating to skin. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.