# SAFETY DATA SHEET PTFE

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name PTFE

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

Identified uses Dry lubricant spray

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Aztec Aerosols
	Gateway
	Crewe
	Cheshire
	CW1 6FA
	T+44 (0) 1270 656380
	F+44 (0) 1270 656381
	info@aztecaerosols.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)7831 300868

**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 STOT SE 3 - H336	
Environmental hazards	Aquatic Chronic 2 - H411	
Classification (67/548/EEC or 1999/45/EC)	Xi;R38. F+;R12. N;R51/53. R67.	
Human health	Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.	
Environmental	This product contains substances which are very toxic or toxic to aquatic organisms and may cause long term effects to the aquatic environment (see sections 2 and 12)	
Physicochemical	Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.	
2.2. Label elements		

#### Pictogram



Signal word



Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</li> <li>P102 Keep out of reach of children.</li> <li>P501 Dispose of contents/container in accordance with local regulations.</li> <li>P260 Do not breathe vapour/spray.</li> </ul>
Contains	HYDROCARBONS, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, PROPAN-2-OL

# 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

# 3.2. Mixtures

PETROLEUM GASES, LIQUEFIE		Ŭ	80-60%
CAS number: 68476-85-7	EC number: 270-704-2		
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280		on (67/548/EEC or 1999/45/EC) rc. Cat. 1;R45 Muta. Cat. 2;R46	
HYDROCARBONS, C6-C7, n-alka <5% n-hexane	anes, isoalkanes, cyclics,	3	80-60%
CAS number: —	EC number: 921-024-6	REACH registration number: 01- 2119475514-35	
Classification	Classificati	on (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	Xn;R65. Xi	;R38. F;R11. N;R51/53. R67.	
Skin Irrit. 2 - H315			
Asp. Tox. 1 - H304			
STOT SE 3 - H336			
Aquatic Chronic 2 - H411			
PROPAN-2-OL			5-10%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25	
Classification	Classificati	on (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F;R11 Xi;R		
Eye Irrit. 2 - H319			
STOT SE 3 - H336			

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HEXANE-norm				<1%
CAS number: 110-54-3	EC number: 203-77	77-6	REACH registration number: 01- 2119480412-44	
<b>Classification</b> Flam. Liq. 2 - H225 STOT RE 2 - H373 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		•	5 <b>48/EEC or 1999/45/EC)</b> 3;R62 Xn;R48/20,R65 Xi;R38 R67	
BUTANOL-norm				<1%
CAS number: 71-36-3	EC number: 200-75	51-6	REACH registration number: 01- 2119484630-38	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		Classification (67/5 R10 Xn;R22 Xi;R3	5 <b>48/EEC or 1999/45/EC)</b> 7/38,R41 R67	
Naphtha (petroleum) hydrodesulfurized	d light dearomatized			<1%
CAS number: 92045-53-9	EC number: 295-43	34-2	REACH registration number: 01- 2119463325-40	
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 STOT SE 3 - H336 Aquatic Chronic 2 - H411		•	<b>548/EEC or 1999/45/EC)</b> ;R11. N;R51/53. R67.	
The Full Text for all R-Phrases and Haz	ard Statements are Di	splayed in Section 1	6.	

SECTION 4: First aid measures

4.1. Description of first aid measures		
General information	Move affected person to fresh air at once.	
Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.	
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.	
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 and get medical attention.	

4.2. Most important symptoms and effects, both acute and delayed			
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.		
SECTION 5: Firefighting meas	ures		
5.1. Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.		
5.2. Special hazards arising from the substance or mixture			
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Extremely flammable. Forms explosive mixtures with air.		
5.3. Advice for firefighters			
Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Warn firefighters that aerosols are involved. Use water to keep fire exposed containers cool and disperse vapours.		
SECTION 6: Accidental releas	e measures		
6.1. Personal precautions, prot	ective equipment and emergency procedures		
Personal precautions	Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.		
6.2. Environmental precautions	3		
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.		
6.3. Methods and material for o	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. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with non-combustible, absorbent material.		
6.4. Reference to other section			
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.		
SECTION 7: Handling and stor	rage		
7.1. Precautions for safe hand	ing		
Usage precautions	Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not spray on a naked flame or any incandescent material. Eliminate all sources of ignition.		
7.2. Conditions for safe storage	e, including any incompatibilities		
Storage precautions	Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Extremely flammable.		
7.3. Specific end use(s)			

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

#### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limits

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

#### HYDROCARBONS, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Long-term exposure limit (8-hour TWA): WEL 1200 mg/m<sup>3</sup>

#### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

#### HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

#### BUTANOL-norm

Short-term exposure limit (15-minute): WEL 50 ppm  $\,$  154 mg/m³ Sk  $\,$ 

#### Naphtha (petroleum) hydrodesulfurized light dearomatized

Long-term exposure limit (8-hour TWA): WEL 315 ppm 1200 mg/m<sup>3</sup> WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

#### PROPAN-2-OL (CAS: 67-63-0)

DNEL	Industry - Dermal; Long term systemic effects: 888 mg/kg/day Industry - Inhalation; Long term systemic effects: 500 mg/m³ Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Dermal; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m³	
PNEC	- Fresh water; 140.9 mg/l - Marine water; 140.9 mg/l - Intermittent release; 140.9 mg/l - Sediment (Freshwater); 552 mg/kg - Sediment (Marinewater); 552 mg/kg - STP; 2251 mg/l - Soil; 28 mg/kg	
8.2. Exposure controls		
Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.	
Personal protection	Do not eat, drink or smoke when using this product.	
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	Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). 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.
Hygiene measures	Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.

### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Aerosol.	
Colour	Clear.	
Odour	Organic solvents.	
Initial boiling point and range	-40 to -2°C @ 1013 hPa	
Flash point	<-40°C	
Upper/lower flammability or explosive limits	Lower : 1.8% - Upper 9.5%	
Vapour pressure	ca. 590 to 1760 kPa @ 45°C	
Vapour density	ca. 1.5 at 15°C	
Partition coefficient	log Pow: ca. 2.3 to 2.8	
Auto-ignition temperature	410-580°C	
Comments	Information given is applicable to the major ingredient.	
9.2. Other information		
Other information	Not available.	
Volatile organic compound	This product contains a maximum VOC content of 607 g/l.	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	Stable at normal ambient temperatures and when used as recommended.	
10.2. Chemical stability		
Stability	Avoid the following conditions: Heat, sparks, flames.	
	Avoid the following conditions. Float, sparks, names.	
10.3. Possibility of hazardous		
10.3. Possibility of hazardous Possibility of hazardous reactions		
Possibility of hazardous	reactions	
Possibility of hazardous reactions	reactions	

Materials to avoid Keep away from oxidising materials, heat and flames.

#### 10.6. Hazardous decomposition products

 Hazardous decomposition
 Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

General information	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Inhalation	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
Skin contact	Irritating to skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Arrhythmia (deviation from normal heart beat). Irritating to skin. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Route of entry	Inhalation
Target organs	Central nervous system Respiratory system, lungs
Medical symptoms	Skin irritation. Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

#### SECTION 12: Ecological Information

Ecotoxicity	This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.	
12.1. Toxicity		
Toxicity	Not available.	
12.2. Persistence and degradability		
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	Not available.	
Partition coefficient	log Pow: ca. 2.3 to 2.8	
12.4. Mobility in soil		
Mobility	Not known.	
12.5. Results of PBT and vPvB assessment		

Results of PBT and vPvB Not available. assessment

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### 12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal conside	erations	
13.1. Waste treatment methods		
General information	Do not puncture or incinerate, even when empty.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. 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.	
SECTION 14: Transport inform	nation	
General	This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled 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	3	
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	2.1	
ADR/RID label	3	
IMDG class	2.1	
ICAO class/division	2.1	
Transport labels		

### 14.4. Packing group

Not applicable.

14.5. Environmental hazards

### 14.6. Special precautions for user

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 Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).	
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.	
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228.	
	Safety Data Sheets for Substances and Preparations.	
	Approved Classification and Labelling Guide (Sixth edition) L131.	
	British Aerosol Manufacturers Code of Practice 7th. Edition 1999	

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information		
Revision comments	Supplemental information added.	
Revision date	25/11/2015	
Revision	2	
SDS number	12884	
SDS status	Approved.	
Risk phrases in full	<ul> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R22 Harmful if swallowed.</li> <li>R36 Irritating to eyes.</li> <li>R37/38 Irritating to respiratory system and skin.</li> <li>R38 Irritating to skin.</li> <li>R41 Risk of serious damage to eyes.</li> <li>R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R62 Possible risk of impaired fertility.</li> <li>R65 Harmful: may cause lung damage if swallowed.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul>	

Llowerd statements in full	
Hazard statements in full	H220 Extremely flammable gas.
	H222 Extremely flammable aerosol.
	H222 Extremely flammable aerosol.
	H225 Highly flammable liquid and vapour.
	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H229 Pressurised container: may burst if heated
	H229 Pressurised container: may burst if heated
	H280 Contains gas under pressure; may explode if heated.
	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H304 May be fatal if swallowed and enters airways.
	H315 Causes skin irritation.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H336 May cause drowsiness or dizziness.
	H361f Suspected of damaging fertility.
	H361f Suspected of damaging fertility.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H411 Toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.
	The result of aquation in o manifold adding on one.

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.