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## DRY PTFE FILM

### SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

- 1.1 **Product Name:** Dry PTFE Film Aerosol
- 1.2 **Identified uses:** Lubricant, Dry film. PTFE base.
- Uses advised against** Do not use on live electrics – potential ignition.
- 1.3 **Details of supplier of SDS:** New Tech Lubes Ltd, Unit 3 Harrison Drive Ind Est, Worksop Notts, S81 9RL
- E Mail (competent person)** info@newtechlubes.com
- 1.4 **Emergency Telephone:** +44 (0)1909 730900 (09.00 -17.00 GMT Monday to Friday)

### SECTION 2. HAZARDS IDENTIFICATION

2.1 **Classification of the substance /mixture:**

2.1.1 **Regulation EC 1272/2008:**

- |                      |                                   |
|----------------------|-----------------------------------|
| Aerosol (cat 1)      | Extremely flammable               |
| Eye irritant (cat 2) | Causes serious eye irritation.    |
| STOT SE (cat 3)      | May cause drowsiness or dizziness |

2.2 **Label elements:**

Contains: Propan-2-ol



**Signal word(s):** Danger

**Hazard statements:**

- |      |  |
|------|--|
| H222 | Extremely flammable aerosol                |
| H229 | Pressurised container: may burst if heated |
| H319 | Causes serious eye irritation.             |
| 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..          |
| P243 | Take precautionary measures against static discharge.             |
| P251 | Pressurised container – do not pierce or burn, even after use     |
| P261 | Avoid breathing vapour/spray.                                     |

- P271 Use only outdoors or in well-ventilated area.  
 P280 Wear eye / face protection  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing  
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

### 2.3 Other hazards

The mixture does not contain any vPvB or PBT substances.  
 Danger of bursting (explosion) when heated over 50°C.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixture:

HAZARDOUS INGREDIENTS	%W/W	CAS No EC No	REACH REG NO	HAZARD PICT/STATEMENTS
Hydrocarbon aerosol propellant (<0.1 butadiene)	25-50	68476-85-7 270-704-2	N/A	Flam gas1, H220
Propan-2-ol	50-75	67-63-0 200-661-7	01-2119457558-25	Flam liq 2, H225 Eye irritant 2, H319 STOT SE3, H336
Titanium tetrabutanolate	1-5	5593-70-4 227-006-8	-	Flam liq 3, H226 Skin irritant2 H315 Eye damage1 H318 STOT SE3, H335/336
Polytetrafluoroethylene (PTFE)	1-5	9002-84-0	-	Not classified under GHS

### 3.3 Additional information

See sect 16 for full text of H phrases.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

Eyes: Remove contact lenses. Rinse with water immediately for at least 10 minutes. Obtain medical attention if any discomfort continues.

Skin: Remove severely contaminated clothing. Wash with soap and water. Obtain medical attention if any discomfort occurs.

Inhalation: Move to fresh air. Provide rest and warmth. If effects occur, obtain medical attention.

Ingestion: If swallowed, drink plenty of water. Do not induce vomiting. Obtain immediate medical attention.

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

The following symptoms may be apparent depending upon the routes of absorption as detailed in 4.1 above; eye irritation, headache, nausea, dizziness, respiratory tract irritation..

Resultant acute /long-term effect to the CNS, dermatitis, vomiting, diarrhoea and are further detailed in sect 11

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

Excessive exposure may aggravate pre-existing asthma and other respiratory disorders.

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media: Powder, alcohol resistant foam. CO2, dry chemicals.

Unsuitable extinguishing media: Water stream

### 5.2 Special hazards arising from the substance or mixture

May produce oxides of Carbon and other combustion products. Danger of explosion when heated.

Contents will add to fuelling of fire. Solvent vapours may form explosive mixtures with air.

### 5.3 Advice for firefighters

Wear SCBA. Keep containers cool by spraying with water. Ventilate closed spaces before entering

## SECTION 6. ACCIDENTAL RELEASE MEASURES:

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove possible sources of ignition. Ensure sufficient ventilation. Wear suitable protective equipment as in Sect 8.

### 6.2 Environmental precautions.

Prevent from entering drainage systems or water courses.

### 6.3 Methods and material for containment and clearing

If spray or gas escapes, ensure plenty of fresh air / ventilation. Absorb spilled contents on inert material such as sand or earth - collect and dispose of as in Sect 13. Scrub area with detergent and water to prevent slippery residues.

### 6.4 Reference to other sections

For PPE and disposal see sections 8 and 13 respectively.

## SECTION 7. HANDLING AND STORAGE:

### 7.1 Precautions for safe handling

Only use in areas with good ventilation. Keep away from any sources of ignition including live electrics. Do not use on hot surfaces. Take precautions against static discharge. Wash hands after use and before eating. Remove contaminated clothing.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area. Keep protected from direct sunlight and temperatures above 50°C.

### 7.3 Specific end use (s)

For general lubrication where dry film is indicated

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Workplace exposure limits

Ingredients	LTEL 8 Hr	STEL 15 min	Note
Hydrocarbon aerosol propellant (<0.1 butadiene)	1000 ppm	1250 ppm	EH40
Propan-2-ol	400 ppm	500 ppm	EH40

Biological limit value - Not established  
PNECs, DNELs - Not established

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls - Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

#### 8.2.2 Personal protective equipment:

Eye / face protection - Safety goggles/glasses if there is a risk of eye contact.

Skin protection – Nitrile gloves (EN 374). See glove manufacturer data for glove selection and breakthrough time for use conditions.

Respiratory protection - Not required under normal circumstances. Type RPE if required.

Thermal hazards – Not applicable

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance/physical state:	Aerosol
Colour:	White
Odour:	Alcohol, characteristic
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	< 0 <sup>0</sup> C
IBP /boiling range:	< 0 <sup>0</sup> C
Flash Point	<0 <sup>0</sup> C
Evaporation rate:	Not established
Flammability (gas):	Extremely flammable
Upper /lower explosive limits:	1.8% - 9.4% by vol
Vapour pressure:	Approx 3 bar at 20 <sup>0</sup> C
Vapour density:	Not established
Relative density:	Not applicable
Solubility:	Negligible water miscibility
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Viscosity:	Not applicable
Explosive properties:	Not established
Oxidising properties:	None

## SECTION 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2 Chemical Stability

Stable under proper storage and handling conditions.

### 10.3 Possibility of chemical reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Heat, flame and other ignition sources .Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50<sup>0</sup>C. Do not pierce or burn even after use.

### 10.5 Incompatible materials

Avoid contact with strong oxidising agents

### 10.6 Hazardous decomposition products

None when used as directed.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2. Mixtures

Acute toxicity	}	No data available
Irritation		
Corrosivity		
Sensitisation		
Repeated dose toxicity		
Carcinogenicity		

Mutagenicity  
Toxicity for reproduction

### Other information

May cause significant irritation and discomfort to eyes. Prolonged or repeated contact may cause irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness. Ingestion may cause irritation to mouth and cause damage to respiratory system.

Propan-2-ol					
Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	>2000mg/kg	Rat		
Acute Tox- Derm	LD50	>2000mg/kg	Rabbit		
Skin corrosion / Irritation			Rabbit		Not irritating
Serious eye damage / Irritation			Rabbit		Irritating
Sensitisation – Respiratory or Skin			Guinea pig	Buehler test	Not sensitising
Germ Cell Mutagenicity					
Genotox in vitro			Ames test, Salmonella typhi –with/without		Not mutagenic

### Titanium tetrabutanolate

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute tox-oral	LD50	7500mg/Kg	Rat		
Acute tox-inhal	LC50	11mg/Litre	Rat		
Skin irritation			Rabbit/human		Irritating
Eye irritation					Risk of serious damage to eyes
Skin sensitisation			Human		Patch test did not demonstrate sensitisation
STOT 3 Oral /Inhal					Potential respiratory effect Potential CNS effect

### PTFE

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute tox-oral	LD50	>11,280mg/Kg	Rat		
Skin irritation			Rabbit/human		No irritation
Skin sensitisation			Human		Patch test did not demonstrate sensitisation
Repeated dose toxicity			Rat		No significant effects found

### Hydrocarbon aerosol propellant (<0.1% Butadiene)

General					
In low concentrations may cause narcotic effects. Symptoms include dizziness, headache, nausea and loss of co-ordination.					

### SECTION 12 ECOLOGICAL INFORMATION:

**Mixture****12.1 Toxicity****12.2 Persistence and degradability****12.3 Bioaccumulative potential****12.4 Mobility in soil****12.4 results of PBT and vPvB assessment****12.6 Other adverse effects.**

} No data available

**Propan – 2 - ol****12.1 Toxicity**

Test	Duration	Organism	Method	Result	Notes
Toxicity to fish	48 hrs	Leucisus idus melanotus	LC50	>100mg/l	Static Lit value
Toxicity to daphnia /other aq invertebrates	48 hrs	Daphnia magna	EC50	>100mg/l	Static Lit value
Toxicity to algae	72 hrs	Scenedesmus subspicatus	EC 50	>100mg/l	Static Lit value

**12.2 Persistence, Degradability and Bioaccumulation Potential.**

Media	Test type	Duration	Result	Notes
Water	Ready biodegradability	10 days (content 7mg/l)	>70%	Lit value

**12.3 Bioaccumulative potential** – No data available**12.4 Mobility in soil** - No data available**12.5 Results of PBT and vPvB assessment** - Contains no PBT or vPvB components**12.6 Other adverse effects** - No data available**Hydrocarbon aerosol propellant (<0.1% Butadiene)****General**

No known ecological damage.

**SECTION 13 DISPOSAL CONSIDERATIONS:****13.1 Waste Treatment Methods**

Empty containers must not be burnt or incinerated because of explosion hazard. Dispose of in accordance with local authority guidelines. Empty aerosol products may be recyclable via local authority.

**SECTION 14. TRANSPORT INFORMATION:**

<b>14.1 UN number</b>	1950
<b>14.2 UN proper shipping name</b>	Aerosols
<b>14.3 Transport hazard class</b>	2 (UN / IMDG)
<b>ADR Classification code</b>	5F
<b>14.4 Packing group</b>	None
<b>14.5 Environmental hazards</b>	Not applicable

**SECTION 15. REGULATORY INFORMATION:****15.1 Safety, health and environmental regulations/legislation specific for the mixture**

REACH - 1907/2006  
 CLP - 1272/2008  
 DPD - 199/45/EC  
 COSHH - 2002 (as amended)

**15.2 Chemical safety assessment**

A CSA has not been carried out for this mixture.

## SECTION 16. OTHER INFORMATION:

### Legend

LTEL	Long term exposure limit
STEL (SE)	Short term exposure limit (Single exposure)
STOT	Specific target organ toxicity
PNEC	Predicted no effect concentration
DNEL	Derived no effect level

### Hazard statements –referred to in sect 3

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

### Classification methods used to derive classification of mixture

Classification according to calculation procedure detailed in EC1272/2008

### Additional information

This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.