



## SAFETY DATA SHEET

### Thixotropic Dry Film Lubricant.

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

##### 1.1. Product identifier

**Product name** Thixotropic Dry Film Lubricant.

**Product number** PL198

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

**Identified uses** Paint.

**Uses advised against** Keep away from food, drink and animal feeding stuffs.

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

**Manufacturer** INDESTRUCTIBLE PAINT LTD  
 19-25 Pentos Drive  
 Sparkhill  
 Birmingham  
 England  
 B11 3TA  
 Tel +44(0)121 702 2485  
 Fax +44(0)121 778 4338  
 sales@indestructible.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** +44(0)7772968830

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn;R20. Xi;R38. R43. R10.

##### 2.2. Label elements

###### Pictogram



**Signal word**

**Danger**

## Thixotropic Dry Film Lubricant.

<b>Hazard statements</b>	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation.
<b>Precautionary statements</b>	P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplemental label information</b>	RCH002a Restricted to professional users.
<b>Contains</b>	CYCLOHEXANONE, XYLENE, PHENOL,4,4' - (1-METHYLETHYLIDENE) BIS-POLYMER WITH 2,2'-((1-METHYLETHYLIDENE) BIS (4,1-PHENYLENE OXYMETHYLENE)) BIS (OXIRANE), BUTANOL-norm, FORMALDEHYDE ...%
<b>Supplementary precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground/ bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P312 Call a POISON CENTER/ doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

### 2.3. Other hazards

None Identified

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>CYCLOHEXANONE</b>	<b>40-60%</b>
CAS number: 108-94-1	EC number: 203-631-1
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 3 - H226	R10 Xn;R20
Acute Tox. 4 - H332	

**Thixotropic Dry Film Lubricant.**

<b>XYLENE</b>		<b>10-20%</b>
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	<b>Classification (67/548/EEC or 1999/45/EC)</b> R10 Xn;R20/21 Xi;R38	
<b>Proprietary Non-Hazardous Component</b>		<b>10-20%</b>
CAS number: —		
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>MELAMINE P/W FORMALDEHYDE BUTYLATED</b>		<b>5-10%</b>
CAS number: 68002-25-5		
<b>Classification</b> Aquatic Chronic 4 - H413	<b>Classification (67/548/EEC or 1999/45/EC)</b> R53.	
<b>GRAPHITE</b>		<b>5-10%</b>
CAS number: 7782-42-5	EC number: 231-955-3	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>PHENOL,4,4' - (1-METHYLETHYLIDENE) BIS-POLYMER WITH 2,2'-((1-METHYLETHYLIDENE) BIS (4,1-PHENYLENE OXYMETHYLENE)) BIS (OXIRANE)</b>		<b>5-10%</b>
CAS number: 25036-25-3	EC number: 607-500-3	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36/38. R43.	
<b>BUTANOL-norm</b>		<b>3-&lt;5%</b>
CAS number: 71-36-3	EC number: 200-751-6	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> R10 Xn;R22 Xi;R37/38,R41 R67	

## Thixotropic Dry Film Lubricant.

<b>ETHYLBENZENE</b>	<b>1-&lt;3%</b>
CAS number: 100-41-4	EC number: 202-849-4
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> F; R11. Xn; R20, R48/20, R65
<b>TOLUENE</b>	<b>&lt;0.2%</b>
CAS number: 108-88-3	EC number: 203-625-9
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67
<b>ISO-BUTANOL</b>	<b>&lt;0.2%</b>
CAS number: 78-83-1	EC number: 201-148-0
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> R10 Xi;R37/38,R41 R67
<b>FORMALDEHYDE ...%</b>	<b>&lt;0.1%</b>
CAS number: 50-00-0	EC number: 200-001-8
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Carc. Cat. 3;R40 T;R23/24/25 C;R34 R43

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

**Composition comments**            The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation**                            Move affected person to fresh air at once. Get medical attention if any discomfort continues.

## Thixotropic Dry Film Lubricant.

<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>General information</b>	Effects may be delayed. Keep affected person under observation.
----------------------------	---

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
-----------------------------	---

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.
-------------------------------------	---

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

<b>Specific hazards</b>	Irritating gases or vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . Oxides of carbon. Oxides of nitrogen.
-------------------------	---

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
-----------------------------	---

### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
----------------------------------	---

### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.
--------------------------------	--

### 6.4. Reference to other sections

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
------------------------------------	---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.
--------------------------	---

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

## Thixotropic Dry Film Lubricant.

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Flammable liquid storage.

### 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

##### **CYCLOHEXANONE**

Long-term exposure limit (8-hour TWA): WEL 10 ppm 41 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 20 ppm 82 mg/m<sup>3</sup>

Sk

##### **XYLENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

##### **GRAPHITE**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

##### **BUTANOL-norm**

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m<sup>3</sup>

Sk

##### **ETHYLBENZENE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup>

Sk

##### **TOLUENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>

Sk

##### **ISO-BUTANOL**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m<sup>3</sup>

##### **FORMALDEHYDE ...%**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Sk = Can be absorbed through skin.

**Ingredient comments** WEL = Workplace Exposure Limits

### XYLENE (CAS: 1330-20-7)

**Ingredient comments** WEL = Workplace Exposure Limits

### 8.2. Exposure controls

## Thixotropic Dry Film Lubricant.

### Protective equipment



#### Appropriate engineering controls

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

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Rubber (natural, latex).

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

Wear a respirator fitted with the following cartridge: Organic vapour filter.

### SECTION 9: Physical and Chemical Properties

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

Appearance	Coloured liquid.
Colour	Black.
Odour	Characteristic.
Initial boiling point and range	137-143°C @ 760 mm Hg
Flash point	25°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 7 g/m <sup>3</sup>
Relative density	1.00 g/ml @ 23°C
Solubility(ies)	Immiscible with water.

#### 9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 650 g/litre.
---------------------------	---

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stability	No particular stability concerns.
-----------	-----------------------------------

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
------------------------------------	-----------------

#### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.
---------------------	---

#### 10.5. Incompatible materials

## Thixotropic Dry Film Lubricant.

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 12,400.79

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 9,909.91

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 9,243.85

**ATE inhalation (vapours mg/l)** 22.6

**ATE inhalation (dusts/mists mg/l)** 3.08

**General information** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Harmful by inhalation.

**Ingestion** Gastrointestinal symptoms, including upset stomach.

**Skin contact** Irritating to skin. May cause sensitisation by skin contact.

**Eye contact** Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Avoid releasing into the environment.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product hardens to a solid, immobile substance.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available.

### 12.6. Other adverse effects



## Thixotropic Dry Film Lubricant.

**Other adverse effects** Not determined.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**Road transport notes** Not regulated.

**Rail transport notes** Not regulated.

#### 14.1. UN number

**UN No. (IMDG)** 1263

**UN No. (ICAO)** 1263

#### 14.2. UN proper shipping name

**Proper shipping name (IMDG)** PAINT

**Proper shipping name (ICAO)** PAINT

#### 14.3. Transport hazard class(es)

**IMDG class** 3

**ICAO class/division** 3

**Transport labels**



#### 14.4. Packing group

**IMDG packing group** III

**ICAO packing group** III

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

#### 14.6. Special precautions for user

**EmS** F-E, S-E

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

### SECTION 15: Regulatory information

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

## Thixotropic Dry Film Lubricant.

**EU legislation** 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).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Revision date</b>	24/05/2017
<b>Revision</b>	4
<b>Risk phrases in full</b>	<p>R10 Flammable.</p> <p>R11 Highly flammable.</p> <p>R20 Harmful by inhalation.</p> <p>R20/21 Harmful by inhalation and in contact with skin.</p> <p>R22 Harmful if swallowed.</p> <p>R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.</p> <p>R34 Causes burns.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R37 Irritating to respiratory system.</p> <p>R37/38 Irritating to respiratory system and skin.</p> <p>R38 Irritating to skin.</p> <p>R40 Limited evidence of a carcinogenic effect.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R53 May cause long-term adverse effects in the aquatic environment.</p> <p>R67 Vapours may cause drowsiness and dizziness.</p>
<b>Hazard statements in full</b>	<p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H301 Toxic if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H311 Toxic in contact with skin.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H341 Suspected of causing genetic defects.</p> <p>H350 May cause cancer.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.</p> <p>H413 May cause long lasting harmful effects to aquatic life.</p>

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.