

LANGLOW PAINT REMOVER

LAN TECH – 08 / 2003

**BLISTERS AND LIFTS PAINT
WITHIN MINUTES**

**CLINGS TO VERTICAL SURFACES
AND IS WATER WASHABLE**

**FAST ACTING SOLVENT
BASED FORMULA**

DESCRIPTION:

LANGLOW PAINT REMOVER is a methylene chloride based paint stripper specially formulated for use on most commonly encountered surface coatings, including alkyd based gloss paints, PU varnishes, Vinyl and Acrylic emulsions. The product is a smooth, free flowing viscous liquid, demonstrating excellent cling to vertical surfaces and incorporating strong polar solvents to break down and blister multiple layers of paint in a single application. On most conventional coatings, the user will see an instant effect whereby the paint will blister layer by layer allowing easy removal to be completed with a suitably sharp spatula or scraper. This product is also effective in removing specialised industrial paints such as two-pack epoxy coatings, cellulose laquers, traffic paints and powder coatings to reveal ideal surfaces on hardwoods, brickwork, ceramic tiles, cast iron mouldings and structural metalwork including aluminium and galvanised steel. LANGLOW PAINT REMOVER is suitable for use on Hardwood timbers particularly fine Veneers, Oak, Hemlock, Mahogany and Douglas Fir where the use of an alkaline based paint stripper may darken the appearance of the wood.

PREPARATION:

Check that the substrate is resistant to polar solvents (i.e. Methylene Chloride), as certain types of plastic, fibreglass and other synthetic composites such as "Gesso," will be adversely affected in contact with LANGLOW PAINT REMOVER. Prior to application and as a means of determining efficacy, all paint removers benefit from the use of a test patch to determine the effectiveness of the stripper against the number and type of layers of paint present, therefore indicating how many repeat applications may be required to remove all of them back to the base substrate. The test patch will also help determine whether there will be any detrimental effect to the substrate, particularly where plastics or composite materials are beneath the paint, as they may be damaged if in direct contact with LANGLOW PAINT REMOVER. Testing should be carried out on a small area, not more than about 6" x 6" in a discrete location. Leave the test patch for no more than 1 hour, then remove the blistered residues with a scraper and assess its' effectiveness.

HEALTH & SAFETY:

LANGLOW PAINT REMOVER is based on volatile organic solvents such that all preparation work should take account of the need to restrict and prevent contact with harmful substances. Ensure the working area is well ventilated by opening all doors and windows, or provide LEV where this is not possible. Do not use in areas where there are any sources of ignition and protect surrounding surfaces and furniture using heavy duty polythene sheeting, cleaning up all spillages immediately from untreated areas.

HAZARDS CLASSIFICATION: HARMFUL – LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.

Keep locked up and out of reach of children. Wear suitable rubber/PVC gloves; PVC overalls; safety boots and eye/face protection. If swallowed do not induce vomiting – seek immediate medical assistance. Avoid contact with skin and eyes. Wash splashes off skin immediately and remove affected clothing for prompt laundering. When using DO NOT smoke.

APPLICATION:

Providing the test patch has demonstrated a successful outcome, application of LANGLOW PAINT REMOVER to the entire area can proceed. Isolate the application area; provide all available ventilation and in public areas post notices at access and egress points to alert passers-by of the danger from contact with any HARMFUL residues and odours likely to be present whilst work proceeds. Only decant LANGLOW PAINT REMOVER into a steel open top container, DO NOT use a plastic vessel as this may be rapidly degraded.

Apply to the surface using a brush, ensuring a consistent layer (1 to 2mm thick) is achieved and that it penetrates into all crevices and corners. Do not cover an area of greater than 0.5 square metres at any one time and when the coating begins to blister after about 10 minutes apply more paint remover onto the layers being revealed below. After about 30 minutes removal of the stripping compound can proceed by using a sharp spatula or trowel to lever the blistered paint away from the surface to reveal the bare substrate. The use of a sharp point to strip corners and recesses along with a prompt re-application of PAINT REMOVER may help achieve a consistent final finish. Collect all paste residues in to newspaper or dust sheets and place in a marked open container outdoors. The rapid evaporative properties of LANGLOW PAINT REMOVER will further reduce the presence any residual harmful solvents prior to the container being sealed for disposal. The stripped surface should be thoroughly washed down with soapy water. In situations where wood laminates, veneers & hardwoods have been stripped, the use of white spirit is more appropriate to achieving the optimum clean surface finish.

COVERAGE:

The consumption of paint remover depends on the depth applied and the texture of the surface. On a flat even wall at 2mm depth, 10 litres of LANGLOW PAINT REMOVER will be sufficient to cover up to 10 square metres. Always assess the test patch before estimating how much product will be required, as repeat applications to the older layers of paint beneath the "top coat" may be necessary.

STORAGE & PACKAGING:

Packed in 1 & 5 litre steel containers, sealed with a child resistant closure and cap insert. This product should be kept in cool ambient conditions away from sources of heat or exposure to sunlight behind glass.

Should further more specific technical information be required, contact the Palace Technical help-line on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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SUBSTANCE IDENTIFICATION:			
PAINT STRIPPER			
COMPOSITION: Methylene Chloride >70% CAS 75-09-2 Methanol < 10% CAS 67-56-1 Paraffin wax		HAZARDS CLASSIFICATION: HARMFUL - R40, R68/20/21/22 Limited evidence of a carcinogenic effect Possible risk of irreversible effects by inhalation, in contact with skin & if swallowed Keep out of reach of children Keep away from sources of ignition – No smoking. If swallowed do not induce vomiting – seek medical assistance. Do not breathe vapour. Avoid contact with skin and eyes.	
FIRST AID MEASURES:			
INHALATION: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.	SKIN CONTACT: Wash off skin with warm soapy water. Remove contaminated clothing and launder regularly. Prolonged and unattended contact should be avoided. Where irritation to skin is apparent seek medical attention.	INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.	EYE CONTACT: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.
FIRE FIGHTING MEASURES: Will only combust when exposed to fire or a vigorous source of ignition. Recommended extinguishers – Dry powder; Foam, CO2 – Do not use water jets. Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes incl. phosgene. Special procedures – Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product.			
ACCIDENTAL RELEASE MEASURES: Absorb, bund and scrape spillages onto sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for flammable products. Consult Protective Equipment section for advice when handling spillages.			
HANDLING & STORAGE: Handling: Ensure adequate ventilation and use all recommended personal protective equipment Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment. Do not store in direct sunlight. Always hold can away from face when releasing cap - slowly			
EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: Maximum Exposure limit: 350mg/M3 for 8hr TWA or 1000mg/M3 for 15 min TWA for Dichloromethane –			
Respiratory: Good ventilation is required otherwise use an organic vapour filtered face-mask or powered respirator when in confined spaces.	Hand: Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 1 hr.	Eye: BS 2092 Goggles or a full face visor should be worn for all applications to prevent accidental face/eye contact	Skin: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately.

SAFETY DATA SHEET No. 071– issue date 24-06-03

PRODUCT: PAINT STRIPPER

PHYSICO-CHEMICAL PROPERTIES:		
Appearance – Opaque, semi viscous liquid Boiling point range – from 42°C Solubility – Hydrocarbon oils Auto ignition temp > 500°C Specific gravity - 1.18 +/- 0.05 g/cm3 Miscibility – oil & partially in water. Evaporation rate - < 1.4 (n-But Ac = 1) vapour retarded	Viscosity - 1500 mm2/sec Vapour pressure – < 0.5 kPa Flash point - non flammable Explosive limits in air - n/a Flammability limit - 19% upper PH - n/a Oxidising properties - N/A	
STABILITY & REACTIVITY: Stable – No dangerous chemical reactions known – hazardous polymerisation will not occur. Materials to avoid – Strong oxidising agents. Conditions to avoid – sources of ignition - Hazardous decomposition products are phosgene and oxides of carbon. Conditions to avoid - Storage in warm conditions or under direct sunlight will cause can pressurisation & deformation		
TOXICOLOGICAL INFORMATION: Routes of exposure – Inhalation, skin contact and ingestion. Oral LD50 > 1650mg/kg when rat ingested. Health effect – prolonged inhalation may cause headaches and Depression of the CNS. Acute effects of inhalation – coughing and eyes watering. Acute effects of skin contact – redness, irritation and sensitisation leading to dermatitis with persistent exposure.		
Acute toxicity: Skin irritation Irritation / Corrosivity: May burn skin	Sensitisation: dermatitis Mutagenicity: n/a	Carcinogenicity: Class 3 Reproductive toxicity: n/a
ECOLOGICAL INFORMATION: Bio-accumulative potential – negligible due to high volatility resulting in rapid evaporation to air. Ecotoxicity: LC50: 1 – 10 mg/litre Environmental Persistence – Inherently biodegradable - Will be removed within a waste-water treatment facility.		
DISPOSAL CONSIDERATIONS: Dried residues are non-hazardous and non-flammable, although cloths used to apply the product will retain a skin contact risk until they are either laundered or allowed to dry completely. Unused product and freshly contaminated application materials must be disposed of in accordance with local authority regulations for chlorinated solvents.		
TRANSPORT INFORMATION: IMDG: TOXIC LIQUID, ORGANIC, NOS, (CONTAINS DICHLOROMETHANE AND METHANOL), CLASS 6.1, UN 2810 PG II; IATA / IACO: Class 6; Packing Group II; ADR / RID: UN 2810 TOXIC LIQUID, ORGANIC, NOS (CONTAINS DICHLOROMETHANE AND METHANOL), 6.1, PG II Transport Name (UK Road) – Toxic liquid NOS. EAC No/HIN No: 2X/60		
REGULATORY INFORMATION: CHIP Hazard symbols:– R40, R68/20/21/22 Harmful Xn Safety phrases: S2 – S16 – S23 - S24 – S25 - S57 - S60 - S62. All retail packs require a child resistant closure approved to BS EN ISO 28317 and a Tactile danger warning triangle		
FURTHER INFORMATION: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.		



PAINT STRIPPER SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

Product Name: PAINT & VARNISH REMOVER

Applications: Dichloromethane (Methylene Chloride based) surface coatings remover, fast acting and effective in blistering and lifting most types of painted surface coating

Supplier: Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 4AB
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients: Methylene Chloride > 70% w/w
CAS 75-09-2
Methanol < 10% w/w
CAS 67-56-1
Paraffin wax & hydrocarbon solvents < 5% w/w

Hazardous components: Methylene Chloride & Methanol

3. HAZARDS IDENTIFICATION:

Classification: HARMFUL;

Risk Phrases: Harmful by inhalation; in contact with skin & if swallowed.
Possible risks of irreversible effects by inhalation; in contact with skin & if swallowed
Limited evidence of a carcinogenic effect
Repeated exposure may cause skin dryness and cracking

4. FIRST AID MEASURES:

Inhalation: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.

Skin contact: Wash off skin immediately with soapy water. Remove contaminated clothing and launder regularly. Prolonged and unattended contact should be avoided. Where irritation to skin is apparent seek medical attention.

Ingestion: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet

Eye contact: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

5. FIRE FIGHTING MEASURES:

Extinguishers: Dry powder; alcohol resistant Foam, CO₂ – Do not use water jets.

Combustion products: Will only combust when exposed to fire or a vigorous source of flame
Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes including phosgene gas.

Special procedures: Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product.

6. ACCIDENTAL RELEASE MEASURES:

- Personal protection:** Ventilate area and contain with absorbent material. Wear personal protective equipment including breathing apparatus if entering a confined space as recommended in section 8. Note small spillages will still present a slippage hazard.
- Environmental protection:** Do not allow spill to enter drains or watercourses. Form a dam with sand, earth or a boom. Absorb, bund and scrape spillages onto sand, sawdust or absorbent granules.
- Spill removal methods:** Confine absorbed residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for flammable products – subject to special waste management controls. Clean affected area with detergent & water

7. HANDLING & STORAGE:

- Handling precautions:** Ensure adequate ventilation and use all recommended personal protective equipment along with engineering controls such as local exhaust ventilation where available.
- Storage precautions:** Store in tightly-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment preferably within a lockable metal cabinet. Do not store in direct sunlight or adjacent to sources of heat
- Usage precautions:** Always open can away from face when slowly releasing cap. Do not decant to fragile or plastic containers and use in small volumes at a time (< 1 litre) to minimise spillage risk. Advise persons not suitably equipped to avoid area whilst work is in progress

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

- Exposure limits:** OEL = 350mg/M3 8hr TWA; STEL = 1000mg/M3 for (10mins) - Dichloromethane
- Process controls:** Provide adequate containment and local exhaust ventilation
- Personal protection:** **Respiratory:** Good ventilation is always required however in confined spaces use an organic vapour filtered half-face mask or an air fed ventilation system.
Hand: Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 4 hrs.
Eye: BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact and a full face visor where there is a risk of splashing or drips, along with head protection (PVC helmet) where overhead application is intended.
Skin: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately. Frequent and prolonged skin contact must be prevented

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Semi-viscous flowable Liquid	Vapour pressure:	< 0.5 kPa
Colour:	Opaque, grey colour	Evaporation rate:	< 1.4 (n-But Ac = 1)
Density / SG:	1.16 – 1.20 g/cm ³	Viscosity:	1500 mm ² /s
Solubility:	Oils & water (partially)	Boiling point:	From 42°C
Flash point:	n/a	Flammability limits:	19.0% upper vol in air
Auto ignition Temp:	> 500°C	Oxidising properties:	n/a

10. STABILITY & REACTIVITY:

- Conditions to avoid:** Sources of ignition, exposing container to direct sunlight and elevated temperatures
- Materials to avoid:** Oxidising agents
- Decomposition products:** Acrid black smoke; phosgene and oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

Routes of exposure:	Inhalation, skin contact and ingestion.	Corrosivity:	Burns skin in prolonged contact
Acute short term effects:	Skin redness, irritation and eyes watering.	Sensitisation:	With prolonged contact
Chronic long term effects	irritation and sensitisation leading to dermatitis	Mutagenicity:	n/a
Toxic dose -LD 50:	LD50 > 1650mg/kg when rat ingested	Carcinogenicity:	n/a
Prolonged exposure effects:	headaches and Depression of the CNS	Reproductive toxicity:	n/a

12. ECOLOGICAL INFORMATION:

Ecotoxicity: LC50: 1 - 10 mg/litre
Bio-accumulative potential: Negligible due to high volatility resulting in rapid evaporation to air.
Persistence & degradability: Inherently biodegradable - Will be removed within a waste-water treatment facility

13. DISPOSAL CONSIDERATION:

Disposal Methods: Application equipment such as brushes and cloths can be left exposed to air to allow full evaporation of solvent, until they are either laundered or allowed to dry completely.
Special requirements: Unused product and freshly contaminated application materials must be disposed of in accordance with local authority regulations for chlorinated solvents.
Regulatory controls: Special waste provisions apply to the disposal of this product

14. TRANSPORT INFORMATION:

Proper shipping name:	TOCIC LIQUID, ORGANIC, NOS (CONTAINS DICHLOROMETHANE & METHANOL)		
ADR Class No.:	6.1	Flash point:	N/A
UN No.	2810	IMDG Class:	6.1
ADR Packing Group:	II	IMDG Pack group:	II
EAC/HIN Codes:	2X / 60	Marine pollutant:	YES

15. REGULATORY INFORMATION:

Classification: HARMFUL



Risk phrases: R20/21/22; R36/38; **R40**; R68
Safety phrases: S2, S16, S23, S24, S25, S57, S60, S62
UK Regulatory references: All retail packs require a child resistant closure approved to BS EN ISO 28317 and a Tactile danger warning triangle.

16. OTHER INFORMATION:

Last revision date: 26-04-05
SDS No.: 100
Data sources: Volume VII Approved supply list; EH40; Croner; Bulk supplier data sheets
Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.