

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1 Product identifier

Product name: Langley Spray-On Primer.

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

Identified uses: Adhesives.

Uses advised against: No specific uses advised against are identified.

2. HAZARDS IDENTIFICATIONS

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): Xn;R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. F+;R12. R67

Human health: Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May be slightly irritating to eyes.

Physicochemical: The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

2.2 Labels elements

Pictogram



Signal word: Danger.

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:
 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.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P260 Do not breathe spray.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

Contains: CYCLOHEXANE, hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, ETHYL ACETATE.

Supplementary precautionary statements:

- P261 Avoid breathing vapour/spray.
- P264 Wash contaminated skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call 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.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

2.3 Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

DIMETHYL ETHER 30-60%		
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-0000
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 1 - H220 Press. Gas, Liquefield - H280		F+;R12
CYCLOHEXANE 10-30%		
CAS number: 110-82-7	EC number 203-806-2	REACH registration number: 01-2119463273-41-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 STOT SE 3 - H336 STOT SE 3 - H336 STOT SE 3 - H336 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		F;R11 Xn;R65 Xi;R38 R67 N;R50/53
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 10-30%		
CAS NUMBER: -	EC number: 921-024-6	REACH registration number: 01-2119475514-35
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 STOT SE 3 - H336 STOT SE 3 - H336 STOT SE 3 - H336 Aquatic Chronic 2 - H411		Xn;R65. Xi;R38. F;R11. N;R51/53. R67.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

ETHYL ACETATE 5-10%		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-0017
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H319 Eye Irrit. 2 - H319 STOT SE 3 - H336		F;R11 Xi;R36 R66 R67
ZBED (ZINC DIBENZYL DITHIOCARBAMATE) <1%		
CAS number: 1426-36-4 M factor (Acute) = 1 M factor (Chronic) = 1		
Classification		
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
HEXANE-norm <1%		
CAS number: 110-54-3	EC number: 203-777-6	REACH registration number: 01-2119480412-44
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f Asp. Tox. 1 - H304 STOT SE 3 - H336 STOT RE 2 - H373 STOT SE 3 - H336 STOT SE 3 - H336 Aquatic Chronic 2 - H411		F;R11 Repr. Cat. 3;R62 Xn;R48/20,R65 Xi;R38 R67 N;R51/53

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:	Get medical attention if any discomfort continues.
Inhalation:	Remove affected person from source of contamination. Move affected person to fresh air, keep warm and at rest in a position comfortable for breathing.
Ingestion:	Rinse mouth thoroughly with water. 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. Get medical attention immediately.

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.
Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion:	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	May cause temporary eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes:	No specific recommendations. If in doubt, get medical attention promptly.
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Langley Spray-On PrimerProduct Ref: (DsC35-0715)
Issue No: 02 - 0117**5. FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media: Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards: The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. The product is highly flammable.

Hazardous combustion products: Does not decompose when used and stored as recommended.

5.3 Advice for firefighters

Protective actions during firefighting: Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

Special protective equipment for firefighters: Wear chemical protective suit.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precaution: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions

Environmental precaution: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground.

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. Absorb in vermiculite, dry sand or earth and place into containers.

6.4 Reference to together sections

Reference to other section: Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Usage precautions: Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions: Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

Storage class: Flammable liquid storage.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

7.3 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

DIMETHYL ETHER

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m³
 Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m³

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³
 Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm
 Short-term exposure limit (15-minute): WEL 400 ppm

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³
 Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

8.2 Exposure controls



Appropriate engineering controls:	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection:	The following protection should be worn: Chemical splash goggles.
Hand protection:	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. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
Other skin and body protection:	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.
Hygiene measures:	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection:	In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Aerosol.
Colour:	Various colours.
Odour:	Characteristic.
Odour threshold:	Not available.
pH:	Not available.
Melting point:	Not available.
Initial boiling point and range:	Not determined.
Flash point:	Estimated value -41 °C
Evaporation rate:	Not determined.
Evaporation factor:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Estimated value. : 1.1%-26.2%
Other flammability:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.10 @ 20 °C
Bulk density:	Not available.
Solubility:	Insoluble in water.
Partition coefficient:	Not available.
Auto-ignition temperature:	Estimated value. 226 °C
Decomposition temperature:	Not available.
Viscosity:	Kinematic viscosity > 20.5mm ² /s
Explosive properties:	Not available.
Explosive under the influence of a flame:	Not considered to be explosive.
Oxidising properties:	Not available.

10. STABILITY AND REACTIONS

10.1 Reactivity

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

10.2 Chemical stability

Stability: No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3 Possibility of hazardous

Possibility of hazardous reaction: Not applicable. Not relevant.

10.4 Conditions to avoid

Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkalis.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

10.6 Hazardous decomposition products

Hazardous decomposition products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Dermal
 ATE dermal (mg/kg) 10,000.00

Skin corrosion/irritation
 Animal data Irritating.

Serious eye damage/irritation
 Serious eye damage/irritating Moderately irritating.

Respiratory sensitisation
 Respiratory sensitisation Sensitising.

Carcinogenicity
 Carcinogenicity Suspected carcinogen based on limited evidence.
 Target organ for carcinogenicity No specific target organs known.

Reproductive toxicity
 Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - repeated exposure
 STOT - repeated exposure Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard
 Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation: Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion: May cause stomach pain or vomiting.

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

Eye contact: Irritation of eyes and mucous membranes.

Acute and chronic health hazards: May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of entry: Inhalation Skin and/or eye contact.

Medical symptoms: Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Medical considerations: Chronic respiratory and obstructive airway diseases.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is not expected to be hazardous to the environment.

12.1 Toxicity

Acute toxicity - fish: LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish.

Acute toxicity - aquatic invertebrates: EC₅₀, 48 hours: >500 mg/l, Daphnia magna.

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Langley Spray-On PrimerProduct Ref: (DsC35-0715)
Issue No: 02 - 0117Acute toxicity - aquatic plants: EC₅₀, 72 hours, 72 hours: - 1640 mg/l, Scenedesmus subspicatus.**12.2 Persistence and degradability**

Persistence and degradability: The product is not readily biodegradable.

Stability (hydrolysis): Reacts with water.

Biological oxygen demand: < 10 g O₂/g substance.**12.3 Bioaccumulative potential**

Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.

Partition coefficient: Not available.

12.4 Mobility in soil

Mobility: The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5 Results of PBT and vPvB Assessment

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.

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.

14. TRANSPORT INFORMATION**14.1 UN number**

UN No. (ADR/RID):	3501
UN No. (IMDG):	3501
UN No. (ICAO):	3501
UN No. (AND):	3501

14.2 UN proper shipping name

Proper shipping name (ADR/RID):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Proper shipping name (IMDG):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Proper shipping name (ICAO):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Proper shipping name (ADN):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Langley Spray-On Primer

Product Ref: (DsC35-0715)
 Issue No: 02 - 0117

14.3 Transport hazard class(es)

ADR/RID class:	2.1
ADR/RID classification code:	8F
ADR/RID label:	2.1
IMDG class:	2.1
ICAO class/division:	2.1
AND class:	2.1
Transport:	



14.4 Packing group

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: No

14.6 Special precautions for user

EmS:	F-D, S-U
ADR transport category:	2
Emergency Action Code:	2YE
Hazard Identification Number (ADR/RID):	23
Tunnel restriction code:	(B/D)

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

15. REGULATORY INFORMATION

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

National regulations:	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).
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).
Guidance:	The spraying of flammable liquids HSG178.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

Langley Spray-On PrimerProduct Ref: (DsC35-0715)
Issue No: 02 - 0117**16. OTHER INFORMATION**

Risk phrases in full:

R11 Highly flammable.
R12 Extremely flammable.
R20 Harmful by inhalation.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.
R42/43 May cause sensitisation by inhalation and skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
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.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Store Between:

Store between 5°C - 25°C

Contains SVHC:

No