Langley Spray-On Primer (Aerosol)

Product Ref: (DsC60-0218)
Issue No: 01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1. Product identifier

Product name	Langley Spray-On Primer (Aerosol).

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

Identified uses	Langley Spray-On Primer (Aerosol).
Uses advised against	No specific uses advised against are identified.

2. HAZARDS IDENTIFICATIONS

2.1. Classification of the substance or mixture

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 extremely flammable. Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

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

2.3. 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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.

2.4. 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 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 STOT SE 3 - H336 Asp. Tox. 1 - H304 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 5-10%		
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 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Xn;R65. Xi;R38. F;R11. N;R51/53. R67.

ETHYL ACETATE 1-5%		
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 - H225 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	REACH registration number: 01-2119543708-31-002
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 STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 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 Remove affected person from source of contamination.

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

Ingestion DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

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 if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Vapour, spray or dust may cause chronic eye irritation or eye damage.

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

Notes for doctor	No specific recommendations. If in doubt, get medical attention promptly.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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	Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Special protective equipment for firefighters	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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 Absorb spillage with non-combustible, absorbent material. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

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 Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 5°C and 25°C. Storage class Chemical storage.

Storage class Chemical storage.

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) Short-term exposure limit (15-minute)	WEL 400 ppm 766 mg/m^3 WEL 500 ppm 958 mg/m^3
CYCLOHEXANE	
Long-term exposure limit (8-hour TWA) Short-term exposure limit (15-minute)	WEL 100 ppm 350 mg/m^3 WEL 300 ppm 1050 mg/m^3
ETHYL ACETATE	
Long-term exposure limit (8-hour TWA) Short-term exposure limit (15-minute)	WEL 200 ppm WEL 400 ppm
HEXANE-norm	
Long-term exposure limit (8-hour TWA) Short-term exposure limit (15-minute)	WEL 20 ppm 72 mg/m^3 WEL

ZINC DIBENZYLDITHIOCARBAMATE	
Long-term exposure limit (8-hour TWA) Short-term exposure limit (15-minute)	6 mg/m^3 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.
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	Estimated value. -24 (DME)°C @
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. : 3.3%-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. Hardens in contact with 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.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information	No information required.
Refractive index	Not available.
Particle size	Not available.
Molecular weight	Not available.
Volatility	Not available.
Saturation concentration	Not available.
Critical temperature	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 contact with water. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

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

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. 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological effects	No information available
Acute toxicity - Dermal ATE dermal (mg/kg)	8,888.89
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 respiratory system irritation.
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: > 1000 mg/l, Freshwater fish.
Acute toxicity - aquatic invertebrates	EC50, 48 hours: >500 mg/l, Daphnia magna.
Acute 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.
Ecological information on ingredients.	
ETHYL ACETATE Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
ZINC DIBENZYLDITHIOCARBAMATE Mobility	Insoluble in water.

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.
ETHYL ACETATE Results of PBT and vPvB assessment:	This product does not contain any substances classified as PBT or vPvB.
ZINC DIBENZYLDITHIOCARBAMATE Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.

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)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (AND)	1950

14.2. UN proper shipping name

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 classification code	5F
ADR/RID label	2.1
IMDG class	2.1.
ICAO class/division	2.1
AND class	2.1

Transport:

14.4. Packing group

Packing Group III

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
Tunnel restriction code	(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 Primer (Aerosol)

Product Ref: (DsC60-0218)
Issue No: 01

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

This document is only a guide.
Langley Waterproofing Systems Ltd reserves the right to change the composition and fixing recommendations of products as a result of the evolution of knowledge and technology.