

SAFETY DATA SHEET
TWO PACK WATER BASED LACQUER – BASE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Two Pack Water Based Lacquer – Base

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

Identified Uses: Base for two component surface coating

1.3 Details of the supplier of the safety data sheet

Supplier: Pittaway Special Coatings Ltd
106 – 114 Flinton Street
Hull
HU3 4NA
Tel: +44 (0) 1482 329007
Fax: +44 (0) 1482 213053
info@ilumitex.co.uk

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 3 – H226
Human Health	Skin Seas 1-H317
Environment	Aquatic Chronic 3 – H412

Classification (1999/45/EEC) R43, R10, R52/53

The full text for R – Phrases and Hazard Statement are displayed in Section 16.

Human health – See section 11 for additional information on health hazards. The product contains a sensitizing substance which may provoke an allergic reaction among sensitive individuals.

2.2 Label Elements

Contains Water thinable polyacrylate containing Hydroxyl groups.
Label in accordance with (EC) No. 1272/2008.



Signal Word

Warning



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Hazard Statements

H226	Flammable liquid and vapour.
H317	May cause an allergic reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P262	Do not get in eyes, on skin or on clothing.
P235	Keep cool.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P501C	Dispose of contents/container in accordance with national regulations.

Supplementary Precautionary Statements

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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.
P321	Specific treatment (see medical advice on this label).
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+235	Store in a well-ventilated place. Keep cool.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

WATER THINABLE POLYACRYLATE CONTAINING HYDROXIL GROUPS		30-60%
CAS-No:	EC No:	
Classification (EC 1272/2008) Skin Sens. 1 – H317	Classification (67/548/EEC) R43.	
SOLVENT NAPHTHA, LIGHT AROMATIC content of benzene <0.1%		1-5%
CAS-No: 64742-95-6	EC No: 265-199-0	Registration Number: 01-2119455851-35
Classification (EC 1272/2008) Flammable Liquid 3 H226 EUH066 STOT SE 3 – H335, H336 Asp. Tox. 1 – H304 Aquatic Chronic 2 – H411	Classification (67/548/EEC) Xn; R65 Xi; R37 N; R51/53 R10, R66, R67	

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2-BUTOXYETHANOL		1-5%
CAS-No: 111-76-2	EC No: 203-905-0	
Classification (EC 1272/2008) Acute Tox. 4 – H302 Acute Tox. 4 – H312 Acute Tox. 4 – H332 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319	Classification (67/548/EEC) Xn; R20/21/22 Xi; R36/38	
2 – DIMETHYLAMINOETHANOL		1-5%
CAS-No: 108-01-0	EC No: 203-542-8	
Classification (EC 1272/2008) Flam Liq. 3-H226 Acute Tox. 4 – H302 Acute Tox. 4 – H312 Acute Tox. 3 – H331 Skin Corr. 1B – H314 STOT SE 3 – H335	Classification (67/548/EEC) R10 C; R34 Xn; R20/21/22	

The full text for R-Phrases and Hazard Statements are displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Place unconscious person on the side in the recovery position and ensure breathing can take place.

Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General Information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards.

FLAMMABLE. Solvent vapours may form explosive mixtures with air.

Specific hazards

When heated and in case of fire, toxic vapours/gases may be formed.

5.3 Advice for firefighters

Special Fire Fighting Procedures

Be aware of danger for fire to re-start. Water spray should be used to cool containers. Cool containers exposed to flames with water until well after the fire is out. Do not allow runoff to sewer, waterway or ground.

Protective equipment for fire-fighters.

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Exclude non-essential personnel. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2 Environmental Precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and Material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections

For personal protection, see section 8.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe occupational exposure limits and the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store in locked, well ventilated room and isolated from acids. Store separate from: Oxidising material, Alkalis, Acids.

Storage Class

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 50 litres of liquids with a flashpoint below 32°C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

7.3. Specific End Use(s)

The identified uses for this product are detailed in Section 12.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
2-BUTOXYETHAOL	WEL	25 ppm	123 mg/m ³	50 ppm	246 mg/m ³	Sk
2-DIMETHYLAMINATHANOL	WEL	2 ppm	7.4 mg/m ³	6 ppm	22 mg/m ³	
SOLVENT NAPHTHA, LIGHT AROMATIC (CONTENT OF BENAZENE)	SUP		600 mg/m ³			

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin

SOLVENT NAPHTHA, LIGHT AROMATIC (content of Benzene) (CAS: 6472-95-6)

DNEL					
Industry	Dermal	Long Term	Systemic Effects	25 mg/kg/day	
Industry	Inhalation	Long Term	Systemic Effects	150 mg/m ³	
Consumer	Dermal	Long Term	Systemic Effects	11 mg/kg/day	
Consumer	Inhalation	Long Term	Systemic Effects	32 mg/m ³	
Consumer	Oral	Long Term	Systemic Effects	11 mg/kg/day	

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8.2. Exposure Controls

Protective Equipment



Engineering Measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand Protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Eye Protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene Measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Creamy liquid
Colour	Milky
Odour	Slight odour
Solubility	Miscible with water
Initial boiling point and boiling range	approx. 100C (°C)
Relative density	approx. 1.08 g/ml@20°C
Vapour density	heavier than air
pH- Value, Conc. Solution	Alkaline
Viscosity	approx. 800 DIN 53019/1 mPas 23C
Flash point (°C)	45C CC (closed cup)
Flammability Limit – Lower (%)	Solvent Naphtha 1.0% by vol., 2-butoxyethanol 1.1% by vol.
Flammability Limit – Upper (%)	Solvent Naphtha 7.5% by vol., 2-butoxyethanol 10.6% by vol.

9.2 Other Information

Volatility Description	Volatile
Volatile By Vol. (%)	55% by weight
Volatile Organic Compound (VOC)	83 g/litre

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical Stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidizing substances

10.5. Incompatible Materials

Materials To Avoid

Strong alkalis. Strong acids. Strong oxidizing substances.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin Contact

Acts as a defatting agent on skin. May cause cracking of skin and eczema. Prolonged or repeated exposure may cause severe irritation. May cause sensitization by skin contact.

Eye contact

Irritating to eyes

Health Warnings

May cause sensitization by skin contact.

Route of entry

Inhalation. Skin absorption, Ingestion. Skin and/or eye contact.

Medical Considerations

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

Toxicological information on ingredients

2-BUTOXYETHANOL CAS: 111-76-2)

Acute Toxicity:

Acute Toxicity (Oral LD50)

1480 mg/kg Rat

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Acute Toxicity (Dermal LD50)
435 mg/kg Rabbit

Skin Corrosion/Irritation
Irritating

Serious eye damage/irritation
Moderately irritating

Aspiration hazard
Skin contact. May be absorbed through the skin.

WATER THINABLE POLYACRYLATE CONTAINING HYDROXYL GROUPS

Toxicological information
Salmonella/microsome test (Ames test). No indication of mutagenic effects.

Respiratory or Skin Sensitization
Skin sensitization
Local lymph node assay (LLNA) Rat
Epidemiological studies have shown evidence of skin sensitization. The material shows a sensitizing effect in conjunction with some complex hydrocarbons such as the Solvent Naphthas through skin absorption and is considered to be an inherent property of the mixture.

Germ Cell Mutagenicity
Genotoxicity – In Vitro
Ames Test
Negative
This substance has no evidence of mutagenic properties.

SOLVENT NAPHTHA, LIGHT AROMATIC (content of Benzene <0.1%) (CAS: 64742-95-6)

Acute Toxicity
Acute Toxicity (Oral LD50)
3592 mg/kg Rat

Acute Toxicity (Dermal LD50)
> 3160 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)
>6.193 mg/l (vapours) Rat 4 hours

Serious Eye Damage/Irritation
Slightly irritating

Respiratory or Skin Sensitization
Slightly irritating.

Aspiration Hazard
Inhalation.
Irritating to respiratory system. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Ingestion
Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Repeated exposure may cause skin dryness or cracking.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic.

Ecological information on ingredients

SOLVENT NAPHTHA, LIGHT AROMATIC (content of benzene <0.1%) (CAS: 6472-95-6)

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients

2-BUTOXYETHANOL (CAS: 111-76-2)

Acute Toxicity – Fish

LC50 96 hours - 1490 mg/l *Lepomis macrochirus* (Bluegill)

Acute Toxicity – Aquatic Invertebrates

EC50 48 hours - 1815 mg/l *Daphnia Magna*

Acute Toxicity – Aquatic Plants

EC50 72 hours > 500 mg/l *Scenedesmus Subspicatus*

SOLVENT NAPHTHA, LIGHT AROMATIC (content of benzene <0.1%) (CAS: 6472-95-6)

Acute Toxicity – Fish

LC50 96 hours - 9.22 mg/l *Onchorhynchus mykiss* (Rainbow Trout)

Acute Toxicity – Aquatic Invertebrates

EC50 48 hours - 6.14 mg/l *Daphnia Magna*

EC50 96hours – 19 mg/l Freshwater algae

Acute Toxicity – Microorganisms

EC50 1 – 10 mg/l

12.2. Persistence and Degradability

Degradability

The product is slowly degradable.

Ecological information on ingredients

2-BUTOXYETHANOL (CAS: 111-76-2)

Degradability

The product is expected to be biodegradable.

Biodegradation

Degradation (90%)

Biological Oxygen Demand

- 0.756 g O₂/g substance

Chemical Oxygen Demand

- 2.379 g O₂/g substance

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SOLVENT NAPHTHA, LIGHT AROMATIC (content of benzene <0.1%) (CAS: 6472-95-6)

Degradability

The product is easily biodegradable

12.3. Bioaccumulative Potential

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

12.4. Mobility in Soil

Mobility:

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

12.5 Results of PBT and vPvB assessment

12.6. Other adverse effects

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

Do not allow to enter drains, sewers or watercourses.

13.1. Waste Treatment Methods

Incinerate with provision for removal of effluent gases by scrubber. Dispose of waste and residues in accordance with local authority requirements.

Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorized as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorized as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorized as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

SECTION 14: TRANSPORT INFORMATION

General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

14.1. UN Number

UN No. (ADR/RID/AND)	1263
UN No. (IMDG)	1263
UN No: (ICAO)	1263

14.2. UN Proper Shipping Name

Proper Shipping Name	Contains 1, 2-4 Trimethylbenzene, Class 3, PG 111, (41 °C c.c) MARINE POLLUTANT
Proper Shipping Name	Flammable Liquid, n.o.s

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14.3. Transport Hazard Class(s)

ADR/RID/AND Class	1263
ADR/RID/AND Class	Class 3: Flammable liquids
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



14.4 Packing Group

ADR/RID/AND Packing Group	III
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
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Legislation specific for the substance or mixture

UK Regulatory References

The control of substances hazardous to Health Regulations 2002 (S.I. 2002 No. 2677) with amendments

Statutory Instruments

The chemicals (Hazard Information and Packaging for supply) Regulations 2009 (S.I. 2009 No. 716). Control of substances hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations, Classification and Labeling of Substances and Preparations Dangerous for Supply.

Dangerous Substances and Explosive Atmosphere Regulations 2002 (L138)

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC and 2000/21/EC, including amendments, Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EEC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

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15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010. Update for CLP labeling.

Issued by Technical Department

Revision Date 2nd September 2015.

Risk Phrases In Full

R10	Flammable
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R37	Irritating to respiratory system
R61	May cause harm to the unborn child
R66	Repeated exposure may cause skin dryness or cracking
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R67	Vapours may cause drowsiness and dizziness

Hazard Statements In Full

H226	Flammable liquid and vapour
H412	Harmful to aquatic life with long lasting effects
H304	May be fatal if swallowed and enters airways
H336	May cause drowsiness or dizziness
H335	May cause respiratory irritation
H360D	May damage the unborn child
EUH066	Repeated exposure may cause skin dryness or cracking
H411	Toxic to aquatic life with long lasting effects

Disclaimer

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.