



SAFETY DATA SHEET

2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No 1907/2006 as amended by Regulations (EU) No. 453/2010 and (EU) 2015/830

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

1.1. Product identifier

Product name 2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

Product number 2PCV/GENERAL

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

Identified uses RESTRICTED TO PROFESSIONAL USERS: A solvent- borne, liquid, air-drying, two-pack, polyurethane paint for industrial and professional use only. This product may be force dried (60°C). It is a chemical resisting paint for metal finishing (including Agricultural and Construction equipment). Apply by manual spray after mixing with 2K Fast Activator. The coating may also be used for the decoration of metal items such as fire escapes in buildings. Apply by brush or roller after mixing with 2 Pack Acrylic Polyurethane Activator N as hardener. The coating can also be used for the painting of articles (inside or outside of buildings) but which are not part of the building structure.
Before use, read product data sheet and container label.

Uses advised against Not for sale to or use by the general public.

1.3. Details of the supplier of the safety data sheet

Supplier Manor Coating Systems Ltd
Otley Road
Shipley
West Yorkshire
BD17 7DP

Tel: 01274 587351
Fax: 01274531360
chiefchemist@manorcoatingsystems.co.uk

Contact person Chief Chemist

1.4. Emergency telephone number

Emergency telephone Manor Coating Systems Ltd. 01274 587351 may be contacted (Office hours only)

National emergency telephone number Members of the public should contact: 111 in UK, 01 809 2166 in Republic of Ireland

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Not Classified

Environmental hazards Not Classified

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2.2. Label elements

Pictogram



Signal word	Warning
Hazard statements	H226 Flammable liquid and vapour.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 Wear respiratory protection P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P260 Do not breathe vapour/ spray.
Supplemental label information	RCH002a Restricted to professional users.
Supplementary precautionary statements	P233 Keep container tightly closed. 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. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with national regulations.
Labelling notes	For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BUTYL ACETATE -norm		10-30%
CAS number: 123-86-4	EC number: 204-658-1	REACH registration number: 01-2119485493-29-0000
Classification		
Flam. Liq. 3 - H226		
STOT SE 3 - H336		

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PENTANE-2,4-DIONE 1-5%		
CAS number: 123-54-6	EC number: 204-634-0	REACH registration number: 01-2119458968-15-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331		
2-METHYLPROPAN-2-OL 1-5%		
CAS number: 75-65-0	EC number: 200-889-7	REACH registration number: 01-2119444321-51-0000
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335		
XYLENE 1-5%		
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304		
2-METHOXY-1-METHYLETHYL ACETATE 1-5%		
CAS number: 108-65-6	EC number: 203-603-9	REACH registration number: 01-2119475791-29-0000
Classification Flam. Liq. 3 - H226		

The full text for all hazard statements is displayed in Section 16.

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

Ingredient notes Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
Ingestion	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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

Inhalation	In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
Ingestion	Ingestion may cause nausea, diarrhoea and vomiting.
Skin contact	Prolonged or repeated contact with skin may cause soreness, irritation or dry skin due to a defatting action.
Eye contact	The liquid splashed in the eyes may cause irritation and reversible damage.

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

Notes for the doctor	No specific recommendations.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	recommended: alcohol resistant foam, CO ₂ , powders, water spray/mist
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	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.
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5.3. Advice for firefighters

Protective actions during firefighting	Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	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

Personal precautions	Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.
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6.2. Environmental precautions

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Environmental precautions Do not allow to enter drains or watercourses.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions 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. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Electrical equipment should be protected to the appropriate standard.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear anti-static footwear and clothing and floors should be of the conducting type.
Isolate from sources of heat, sparks and open flame.
Non-sparking tools should be used.
Avoid skin and eye contact.
Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture.
Avoid inhalation of dust from sanding.
Smoking, eating and drinking should be prohibited in application area.
For personal protection see Section 8.
Never use pressure to empty: container is not a pressure vessel.
Always keep in containers of same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or water courses. Wash hands before eating and before leaving the site.
Remove contaminated clothing and protective equipment before entering eating areas.
Information on fire and explosion protection.
Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions

Store in accordance with 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.

The principles contained in the HSE guidance note Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product. Notes on joint storage.

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Additional information on storage conditions

Observe label precautions.

Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition.

No smoking.

Prevent unauthorised access.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

BUTYL ACETATE -norm

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

2-METHYLPROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m³

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Ingredient comments

According to EH40 - List of approved workplace exposure limits. For dust the 8 hour TWA's are:-

Respirable dust 4 mg/cu.m (WEL)

Total inhalable dust 10 mg/cu.m (WEL)

BUTYL ACETATE -norm (CAS: 123-86-4)

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DNEL	<p>Industry - Inhalation; Short term systemic effects: 960 mg/m³</p> <p>Industry - Inhalation; Short term local effects: 960 mg/m³</p> <p>Industry - Inhalation; Long term systemic effects: 480 mg/m³</p> <p>Industry - Inhalation; Long term local effects: 480 mg/m³</p> <p>Consumer - Inhalation; Short term systemic effects: 859.7 mg/m³</p> <p>Consumer - Inhalation; Short term local effects: 859.7 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 102.34 mg/m³</p> <p>Consumer - Inhalation; Long term local effects: 102.34 mg/m³</p>
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PNEC	<ul style="list-style-type: none"> - Fresh water; 0.18 mg/l - Marine water; 0.018 mg/l - STP; 35.6 mg/l - Sediment (Freshwater); 0.981 mg/kg - Sediment (Marinewater); 0.0981 mg/kg - Soil; 0.0903 mg/kg - Intermittent release; 0.36 mg/l
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PENTANE-2,4-DIONE (CAS: 123-54-6)

DNEL	<p>Industry - Inhalation; Long term systemic effects: 84 mg/m³</p> <p>Industry - Dermal; Long term systemic effects: 12 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 7 mg/kg/day</p>
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PNEC	<ul style="list-style-type: none"> - Fresh water; 0.2 mg/l - Marine water; 0.02 mg/l - STP; 1.32 mg/l - Sediment (Freshwater); 1.909 mg/kg - Sediment (Marinewater); 0.191 mg/kg - Soil; 0.193 mg/kg
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2-METHYLPROPAN-2-OL (CAS: 75-65-0)

DNEL	No data available.
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PNEC	<ul style="list-style-type: none"> - Fresh water; 6.64 mg/l - Marine water; 0.664 mg/l - Intermittent release; 9.33 mg/l - STP; 690 mg/l - Sediment (Freshwater); 5.8 mg/kg - Soil; 1.0 mg/kg - Secondary poisoning; 88700000 mg/kg
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XYLENE (CAS: 1330-20-7)

Biological limit values	650 mmol methyl hippuric acid/mol creatinine in urine. Post shift sampling
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DNEL	<p>Industry - Inhalation; Short term systemic effects: 289 mg/m³</p> <p>Industry - Inhalation; Long term systemic effects: 77 mg/m³</p> <p>Industry - Inhalation; Short term local effects: 289 mg/m³</p> <p>Industry - Inhalation; Long term local effects: 77 mg/m³</p> <p>Industry - Dermal; Short term systemic effects: 174 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³</p> <p>Consumer - Inhalation; Short term local effects: 174 mg/m³</p> <p>Consumer - Inhalation; Short term systemic effects: 174 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 108 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 1.6 mg/kg/day</p>
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PNEC	- Fresh water; 0.327 mg/l
	- Marine water; 0.327 mg/l
	- Intermittent release; 0.327 mg/l
	- Sediment (Freshwater); 12.46 mg/kg
	- Sediment (Marinewater); 12.46 mg/kg
	- Soil; 2.31 mg/kg
	- STP; 6.58 mg/l

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

DNEL	Industry - Inhalation; Long term systemic effects: 275 mg/kg/day
	Industry - Dermal; Long term systemic effects: 153.5 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 33 mg/m ³
	Consumer - Dermal; Long term systemic effects: 54.8 mg/kg/day
	Consumer - Oral; Long term systemic effects: 1.67 mg/kg/day
PNEC	- Fresh water; 0.635 mg/l
	- Marine water; 0.0635 mg/l
	- Intermittent release; 6.35 mg/l
	- STP; 100 mg/l
	- Sediment (Freshwater); 3.29 mg/kg
	- Sediment (Marinewater); 0.329 mg/kg
	- Soil; 0.29 mg/kg

8.2. Exposure controls

Protective equipment



Two-pack product protection

The guidance on this safety data sheet should be considered with that provided for the base, activator, and thinner. Where guidance on separate components differ, use the most rigorous option for protection.

After mixing with the activator, under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. If dry flatting is unavoidable air fed respiratory protective equipment should be used. See 'Respiratory protection' in Section 8.2.

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Spray Application should only be undertaken in a spray booth or make-shift booth with 10 to 15 air changes per hour or more. See Respiratory Equipment below.

Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. See Respiratory Equipment below.

Personal protection

Requirements for personal protection can only be determined by performing a risk assessment on a case-by-case basis prior to use. This risk assessment should be reviewed regularly.

Eye/face protection

Use safety eyewear, manufactured/tested to EN 166, and designed to protect against splash of liquids.

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Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling, use chemical resistant gloves classified under "Standard EN374: Protective gloves against chemicals and micro-organisms" made from Viton or PVA barrier material.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance and effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Hygiene measures

Provide eyewash station. Do not eat, drink or smoke when using this product. Promptly remove any clothing that becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

* When spraying: compressed air breathing apparatus. Workers must use a compressed air breathing apparatus to EN 14594, with an assigned protection factor of at least 20.

Compressed air breathing apparatus must be worn by anyone present in the booth or room during spraying, gun cleaning (spray-to-dry) and throughout the clearance time, until such time as the particulates and solvent vapour concentration have fallen below the appropriate occupational exposure limits.

. For operations other than spray: In well ventilated areas, compressed air breathing apparatus could be replaced by a combination of charcoal filter and particulate filter mask, as below.

. When mixing base and activator, wear as a minimum a half face mask respirator with combined filter A2/P3 (APF 20).

. If application by brush and roller is undertaken that generates airborne mist and particulates, treat as for spray application. If airborne mist is not generated, see other activities below.

. As a minimum, for all other activities in application process, a half face mask respirator with combined filter A2/P3 (APF 20) should be worn. As a minimum, a powered full face respirator with combined filter A2/P3 (APF 40) should be used, if used for more than 1 hour continuously as half face mask powered respirators are not recommended.

. Respiratory protection should not be removed until the particulate and solvent vapour concentrations have fallen below the occupational exposure limits or the operator has entered a clean air area.

* Enclosed spaces with little or no ventilation: compressed air breathing apparatus should always be worn.

Fit testing and regular servicing is recommended for all respiratory protective equipment.

The use of HSE website is strongly recommended in selecting the most appropriate RPE

<http://www.healthyworkinglives.com/rpe-selector>

Environmental exposure controls

Refer to the Environmental Protection Act and the Control of Pollution Act. Do not allow to enter drains or water courses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

Appearance	Viscous liquid.
Colour	Various
Odour	Aromatic hydrocarbon, ester
Odour threshold	Not available.
pH	Technically not feasible. The product is a non-aqueous mixture.
Melting point	-76°C
Initial boiling point and range	124 - 180°C @ 760 mm Hg
Flash point	23 - 32°C SCC (Setaflash closed cup).
Evaporation rate	Not determined. (Product is a mixture)
Flammability (solid, gas)	Material is not a solid or gas
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.6 % Upper flammable/explosive limit: 9 %
Vapour pressure	1.11 kPa @ 20°C
Vapour density	Heavier than air.
Relative density	1.0 - 1.2 @ 20°C
Solubility(ies)	Immiscible with water.
Partition coefficient	Not relevant. : Product is a mixture. See Section 12 for partition coefficient data on individual components.
Auto-ignition temperature	315 - 465°C
Decomposition Temperature	Not determined.
Viscosity	500 - 600 mPa s @ 20°C Rotothinner
Explosive properties	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
Volatile organic compound	This product contains a maximum VOC content of 420 - 440 g/litre. This product contains a maximum VOC content of 40 - 44 g/100 g.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.
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10.2. Chemical stability

Stability	Stable under recommended storage and handling conditions (see section 7).
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions
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10.4. Conditions to avoid

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Conditions to avoid Avoid heat, flames and other sources of ignition. When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions

10.6. Hazardous decomposition products

Hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 24,804.63

Acute toxicity - dermal

ATE dermal (mg/kg) 21,856.47

Acute toxicity - inhalation

ATE inhalation (gases ppm) 53,264.67

ATE inhalation (vapours mg/l) 290.88

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data , the classification criteria are not met.

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General information	There are no data available on the mixture itself. The mixture has been assessed following the method according to the "Classification, labelling and packaging of substances and mixtures" EC 1272/2008 and ensuing amendments and classified for toxicological hazards accordingly. This product has not been classified as hazardous.
Inhalation	Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.
Ingestion	Ingestion may cause nausea, diarrhoea and vomiting.
Skin contact	Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
Eye contact	Symptoms following overexposure may include the following: Redness. Pain. The liquid splashed in the eyes may cause irritation and reversible damage.
Medical symptoms	Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.
Medical considerations	This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Toxicological information on ingredients.

BUTYL ACETATE -norm

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,760.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 14,112.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 23.4

Species Rat

ATE inhalation (vapours mg/l) 23.4

Skin corrosion/irritation

Animal data OECD Test Guideline 404 No skin irritation (rabbit)

Serious eye damage/irritation

Serious eye damage/irritation No eye irritation OECD 405 rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

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Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - : Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration - micronucleus assay: Negative. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Reproductive toxicity - fertility Fertility: - NOAEC 3615 mg/m³, Inhalation, Rat

Reproductive toxicity - development Developmental toxicity: - LOAEC: 7230 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 500 ppmV/6hr/day, Inhalation, Rat

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

2-METHYLPROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,046.0

Species Rat

ATE oral (mg/kg) 3,046.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Mouse

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 36.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

Skin corrosion/irritation

Animal data Slightly irritating. Based on available data the classification criteria are not met.

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Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes (rabbit)

Skin sensitisation

Skin sensitisation Guinea pig maximisation test Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure , Oral, Rat

Target organs Kidneys

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,300.0

Species Rat

ATE oral (mg/kg) 4,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,200.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 21.7

Species Rat

ATE inhalation (vapours mg/l) 11.01

Skin corrosion/irritation

Animal data Dose: 24 and, 72 hours, Rabbit Irritating to skin.

Serious eye damage/irritation

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Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising
<u>Skin sensitisation</u>	
Skin sensitisation	- Mouse: Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative. Ames test: Negative. Gene mutation: Negative.
Genotoxicity - in vivo	Dominant lethal assay, intraperitoneal: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 500 mg/kg, Oral, Rat, male/female Did not show carcinogenic effects in animal experiments.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	One-generation study - NOAEL \geq 500 ppm, Inhalation, Rat, male/female P Two-generation study - NOAEL 500 ppm, Inhalation, Rat, male/female P Two-generation study - NOAEL $>$ 500 ppm, Inhalation, male/female F1 Two-generation study - NOAEL $>$ 500 ppm, Inhalation, Rat, male/female F2 This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 500 ppm, Inhalation, Rat, female
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	May cause respiratory irritation.
Target organs	Central nervous system Liver Kidneys
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 150 mg/kg, (3 months), Oral, Rat NOAEL $>$ 3.5 mg/l, (3 months), Inhalation, Rat, Dog
Target organs	Kidneys Liver
<u>Aspiration hazard</u>	
Aspiration hazard	Aspiration hazard - Category 1 If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours)

2-METHOXY-1-METHYLETHYL ACETATE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	8,532.0
Species	Rat
ATE oral (mg/kg)	8,532.0
<u>Acute toxicity - dermal</u>	

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Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 10.8

Species Rat

Notes (inhalation LC₅₀) LC0 value - no mortality in test. Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 10.8

Skin corrosion/irritation

Animal data Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating - may cause slight corneal injury

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - : Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Not mutagenic in AMES Test. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Not determined.

Carcinogenicity

Carcinogenicity NOAEL 300 ppm, Inhalation,

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 300 ppm, Inhalation, Rat, male/female P Two-generation study - NOAEL 1000 ppm, Inhalation, Rat, male/female F1 Two-generation study - NOAEL 1000 ppm, Inhalation, Rat, male/female F2 Based on available data the classification criteria are not met.

Reproductive toxicity - development Teratogenicity: - NOAEL: 1500 ppm, Inhalation, Rat, female Maternal toxicity: - NOAEL: 1500 ppm, Inhalation, Rat, female Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological Information

Ecotoxicity

The mixture has been assessed following the method according to the "Classification, labelling and packaging of substances and mixtures" EC1272/2008 and ensuing amendments and is not classified as dangerous for the environment. Do not allow to enter drains or water courses.

12.1. Toxicity

Toxicity

There is no toxicity data for the mixture itself.

Ecological information on ingredients.

BUTYL ACETATE -norm

Acute toxicity - fish	LC ₅₀ , 96 hours: 18 mg/l, Pimephales promelas (Fat-head Minnow) OECD Guideline for Testing of Chemicals, No.203
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 44 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 647.7 mg/l, Scenedesmus subspicatus NOEC, 72 hours: 200 mg/l, Scenedesmus subspicatus

2-METHYLPROPAN-2-OL

Acute toxicity - fish	LC ₅₀ , 96 hours: 6130 mg/l, Pimephales promelas (Fat-head Minnow) No mortality
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 933 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: > 976 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₅₀ , 16 hours: > 10 g/l, Activated sludge

XYLENE

Acute toxicity - fish	LC ₅₀ , 96 hours: 2.6 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3.82 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 2.2 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC ₅₀ , 24 hours: 96 mg/l, Bacteria
Chronic toxicity - aquatic invertebrates	NOEC, 48 hours: 6.8 mg/l, Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

Acute toxicity - fish	LC ₁₀₀ , 96 hours: 180 mg/l, Onchorhynchus mykiss (Rainbow trout) NOEC, 96 hours: 100 mg/l, Onchorhynchus mykiss (Rainbow trout)
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2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 508 - 500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 96 hours: > 1000 mg/l, Selenastrum capricornutum ErC50, 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: > 1000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability There is no data for the mixture itself.

Ecological information on ingredients.

BUTYL ACETATE -norm

Persistence and degradability	Readily biodegradable
Biodegradation	Water - Degradation (%) 83: 28 days

2-METHYLPROPAN-2-OL

Persistence and degradability	The product is moderately/partially biodegradable
Phototransformation	Water, Water - DT ₅₀ : 75.9 hours
Stability (hydrolysis)	The substance is effectively stable to degradation by hydrolysis .under any environmental conditions likely to be experienced.
Biodegradation	The product is not readily biodegradable (by OECD criteria).

XYLENE

Persistence and degradability	Readily biodegradable
Biodegradation	- Degradation % >60: 28 days Readily biodegradable

2-METHOXY-1-METHYLETHYL ACETATE

Persistence and degradability	Readily biodegradable
Stability (hydrolysis)	pH4 - Half-life : 10 days @ 50°C pH7 - Half-life : 10 days @ 50°C pH9 - Half-life : 8.1 days @ 25°C The substance is effectively stable to degradation by hydrolysis .under any environmental conditions likely to be experienced.
Biodegradation	Water - Degradation (%) >90%: 28 days Activated sludge as innoculum The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential There is no data for the mixture itself.

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Partition coefficient Not relevant. : Product is a mixture. See Section 12 for partition coefficient data on individual components.

Ecological information on ingredients.

BUTYL ACETATE -norm

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Kow: 2.3 OECD Test Guideline 117

2-METHYLPROPAN-2-OL

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient : 0.35

XYLENE

Bioaccumulative potential Not expected to bioaccumulate. BCF: 25.9,

Partition coefficient log Pow: 3.15

2-METHOXY-1-METHYLETHYL ACETATE

Bioaccumulative potential Potential for bioaccumulation is low.

Partition coefficient log Pow: 1.2 @ 20°C

12.4. Mobility in soil

Ecological information on ingredients.

BUTYL ACETATE -norm

Surface tension 61.3 mN/m @ 20°C OECD Test Guideline 115

2-METHYLPROPAN-2-OL

Mobility No data available on mobility.

XYLENE

Mobility The product contains volatile solvents which are immiscible with water and will evaporate into the atmosphere. In soil the product has only slight mobility and will partially evaporate

2-METHOXY-1-METHYLETHYL ACETATE

Mobility Potential for mobility in soil is very high.

Adsorption/desorption coefficient Scientifically unjustified.

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 Not determined.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Do not allow to enter drains or water courses.
Disposal methods	Waste and emptied containers are controlled wastes and should be disposed of in accordance with The Environment Protection (Duty of Care) Regulations" (in England, Scotland, Wales) or The Controlled Waste (Duty of Care) Regulations (in Northern Ireland).
Waste class	The European List of Wastes classification of this product, when disposed of as waste is: Waste Code: Name of Waste (according to Decision 2000/532/EC): 08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of empty containers contaminated by the product in accordance with local or national legal provisions.

Additional information

SECTION 14: Transport information

General	This section contains basic classification information; specific information is not provided for all transport modes if not relevant for the product as supplied. Relevant modal regulations should be consulted if the product is transported onwards.
Road transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION In pack sizes less than 450 litres, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR. These provisions do not apply to air transport.
Sea transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION: In pack sizes up to and including 30 litres, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG Code, but both full documentation and placarding of cargo transport units is still required.
Air transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION: The "viscosity exemption" provision does not apply to air transport.

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3

ADR/RID label 3

Transport labels



14.4. Packing group

PG III

2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

EmS F-E, S-E

Tunnel restriction code (D/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.

Not relevant.

SECTION 15: Regulatory information

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

National regulations

The information in this Safety Data Sheet is required pursuant to the provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations which apply to the use of this product at work.

Control of Pollution Act 1974.

The Environmental Protection (Duty of Care) Regulations 1992 and amendments

The Waste (England and Wales) Regulations 2011 (SI 2011 No. 988)

The Dangerous Substances & Explosive Atmospheres Regulations 2002(SI 2002:2776).

The Manual Handling Operations Regulations 1992, (SI 1992:2793)and amendment, The Stationery Office.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Waste Framework Directive (Directive 2008/98/EC on waste) and amendments

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

This product may add to the calculation for determining whether a site is within scope of the Seveso Directive on major accident hazards.

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Guidance

COSHH Essentials: easy steps to control chemicals, on-line guidance at <http://www.hse.gov.uk/coshh/essentials/index.htm>

Chemical Warehousing: Storage of Flammable Liquids in Containers, HSG51, HSE

Storage: Packaged Dangerous Substances HSG71, HSE.

Working with solvents: A guide to safe working practices, INDG273(rev1), HSE

Best Practice Guideline 5 "Safe Use of Gloves (June 2010) published by the European Solvents Industry Group (ESIG) available at www.esig.org/en/library/publications/best-practice-guides

Control of Substances Hazardous to Health (Fifth Edition) (HSE Books L5)

Dangerous Substances and Explosive Atmospheres Regulations 2002, (HSE Books L138)

Safe use and handling of flammable liquids HSG140 (Second edition), HSE

A step by step guide to COSHH assessment HSG97, HSE

Respiratory protective equipment at work: A practical guide, HSG53, HSE

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

Paints Directive 2004/42/EC VOC Content: EU limit for this product (Cat A/j) is: 500 g/litre. This product contains maximum 435 g/litre VOC when 2 Pack Acrylic CV Base and Activator N are mixed.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>CAS: Chemical Abstracts Service.</p> <p>CLP: Classification, Labelling, Packaging Regulation; Regulation (EC) No. 1272/2008</p> <p>CMR: Carcinogen, Mutagen or Reproductive Toxicant</p> <p>COSHH: Control of Substances Hazardous to Health Regulations</p> <p>DNEL: Derived No Effect Level.</p> <p>EC: European Community</p> <p>ECHA: European Chemicals Agency</p> <p>EC No.: EINECS (European Inventory of Existing Commercial Substances) and ELINCS (European List of Notified Substances) Number</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>EmS: Emergency Schedule (IMDG)</p> <p>EU: European Union</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>OECD: Organisation for Economic Co-operation and Development</p> <p>OEL: Occupational Exposure Limit</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail</p> <p>SDS: Safety Data Sheet</p> <p>STOT: Specific Target Organ Toxicity</p> <p>(STOT) RE: Repeated Exposure</p> <p>(STOT) SE: Single Exposure</p> <p>STP: Sewage Treatment Plant</p> <p>SVHC: Substances of Very High Concern.</p> <p>UN: United Nations.</p> <p>VOC: Volatile Organic Compound</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
General information	The product should not be used for purposes other than those shown in Section 1.
Key literature references and sources for data	Raw material supplier's Safety Data Sheets. Reference to ECHA Registered Substance dossiers.
Classification procedures according to Regulation (EC) 1272/2008	Unless indicated elsewhere in this safety data sheet, the classification of this mixture has been determined using a combination of test data, bridging principles and calculation.
Legal obligations	

2 PACK ACRYLIC POLYURETHANE BASE PART A (General colours)

Revision comments	CLP 1.02 Amended information in Section 8. This issue replaces issue CLP 1.01. CLP 1.01 Amended to meet recommendations described in CEPE Phrase Catalogue version 10. CHIP classification data removed CLP 1.00 This revision is the first to meet the requirements of the "Classification, labelling and packaging of substances and mixtures (CLP) Regulation" EC 1272/2008 and ensuing adaptations to August 2013 Whilst the product itself has not changed, this issue takes into account its reclassification as a consequence of the CLP regulations (see Section 2). Additional information added to Sections 8.1, 8.2, 9.1, 11 and 12.
Issued by	Chief Chemist
Revision date	20/02/2017
Revision	CLP 1.02
Supersedes date	16/06/2016
SDS number	10880
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure.

The information of this SDS is based on the present state of our knowledge and on current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not to be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.