

**BASECOAT READY MIXED COLOUR – PANTHER BLACK**

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK).

Version: 01

Revision: 18.05.2016
(Previous revision None)

Print date: 19.05.2016

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

1.1 Product Identifier;

Product Name Basecoat Ready Mixed Colour – Panther Black

Product Code: 0636

Product Synonyms:

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

Product use Professional use only. Spray application.

**Use of the
Substance/mixture** Coloured coating.

1.3 Details of the supplier of the safety data sheet;

Churchill Paints Ltd

**e-mail address of
person responsible
for this SDS** sales@churchill-paints.co.uk

1.4 Emergency Telephone Number:

+44(0) 1260 290 666 (office hours only)

2. SECTION 2: Hazards identification;

2.1 Classification of the substance or mixture;

Product definition Mixture

Classification In accordance with the Classification, Labelling and Packaging Regulation (EC) No 1272/2008

Physical hazards Flam. Liq. 3, H226

Health hazards Skin Irrit. 2, H315



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STOT SE 3, H336

Environmental hazards

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H226 – Flammable liquid and vapour.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Nonsmoking.

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

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378 - In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

Storage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant.

Hazardous Ingredients

n-butyl acetate. Solvent naphtha (Petroleum) light arom. < 0.1% EC 200-753-7, 1-butanol. 1-methoxy-2-propanol.

Supplemental label elements

EUH066 Repeated exposure may cause skin dryness or cracking.



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*Annex XVII –
Restrictions on the
manufacture, placing
on the market and
use of certain
dangerous substances,
mixtures and
articles.*

Not applicable

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

3. SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

<i>REACH Registration Number</i>	<i>Chemical name</i>	<i>% by wt.</i>	<i>CAS No.</i>	<i>EC No. (EINEC S)</i>	<i>Index No.</i>	<i>Classification Regulation (EC) No.1272/2008 [CLP]</i>
01-2119485493-29	n-Butyl Acetate Butyl ethanoate	≥25 - <50	123-86-4	204-658-1	607-025-00-1	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
01-2119488216-32	Xylene (mixture of isomers)	≥5 - <10	1330-20-7	215-535-7	601-022-00-9	Acute Tox. 4, H312+H332 Flam. Liq. 3, H226 Skin Irrit. 2, H315
01-2119486773-24	Solvent naphtha (Petroleum), light arom. < 0.1% EC 200- 753-7	≥2.5 - <5	64742-95-6	265-199-0	649-356-00-4	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411
01-2119489370-35	Ethyl benzene	≥1 - <2.5	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373
01-2119475108-36	2- butoxyethanol	≥1 - <2.5	111-76-2	203-905-0	603-014-00-1	Acute Tox. 4, H302+312+332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
01-2119457435-35	1-methoxy-2- propanol	≥0.25 - <0.5	107-98-2	203-539-1	603-064-00-3	Flam. Liq. 3, H226 STOT SE 3, H336



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01-2119433307-44	Methanol	< 0.2	67-56-1	200-659-6	603-001-00-X	Flam. Liq. 2, H225; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; STOT SE 1, H370
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The Full Text for all Hazard Statements on this SDS is displayed in Section 16.

4. SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

Ingestion If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Eye contact Causes serious eye irritation.

Inhalation Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Ingestion No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact No specific data.



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Inhalation Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion No specific data.

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

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Immediate / special treatment: No specific treatment.

5. **SECTION 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.

5.2. *Special hazards arising from the substance or mixture*

Hazards from the Mixture

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Run-off to sewer may create fire or explosion hazard.

Hazardous combustion products

Decomposition products may include the following materials:

Carbon dioxide
Carbon monoxide



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5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire-exposed containers cool and disperse vapours. Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency Personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Isolate leaks providing there is no additional risk to those performing this task. Personal protection equipment must be used to avoid direct contact with the spillage. Shut off all ignition sources. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3. Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and



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explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

Special provisions

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.4. *Reference to other sections*

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. *Precautions for safe handling*

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.



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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Coating.

8. SECTION 8: Exposure Controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1. Control parameters

<i>Occupational exposure limits to be monitored in the work environment</i>					
<i>Ingredient name:</i>	<i>Comment (from EH40)</i>	<i>Time-weighted average – 8 hrs (TWA).</i>		<i>Short-term exposure limits – 15min (STELs)</i>	
		<i>ppm.</i>	<i>mg/m³</i>	<i>ppm.</i>	<i>mg/m³</i>
n-Butyl Acetate Butyl ethanoate		150	724	200	966
Xylene (mixture of isomers)	Sk	50	220	100	441
Solvent naphtha (Petroleum), light arom. < 0.1% EC 200-753-7		No data available	No data available	No data available	No data available
Ethyl benzene	Sk	100	441	125	552
2-butoxyethanol	Sk	25	123	50	246
1-methoxy-2-propanol	Sk	100	375	150	563
Methanol	Sk	200	266	250	333

Comments are from HSE Guidance Note EH40/2005 Workplace exposure limits (WELs)

Sk - Can be absorbed through skin


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DNELs (Workers)

<i>Ingredient name:</i>	<i>Exposure</i>	<i>Short term</i>		<i>Long term</i>	
		<i>Systemic</i>	<i>Local</i>	<i>Systemic</i>	<i>Local</i>
n-Butyl Acetate Butyl ethanoate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Inhalation</i>	960 mg/m ³	960 mg/m ³	480 mg/m ³	480 mg/m ³
Xylene (mixture of isomers)	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	<i>Inhalation</i>	289 mg/m ³	289 mg/m ³	77 mg/m ³	Non-applicable
Solvent naphtha (Petroleum), light arom. < 0.1% EC 200- 753-7	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Ethyl benzene	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	293 mg/m ³	77 mg/m ³	Non-applicable
2-butoxyethanol	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
	<i>Inhalation</i>	663 mg/m ³	246 mg/m ³	98 mg/m ³	Non-applicable
1-methoxy-2-propanol	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	50.6 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	553.5 mg/m ³	369 mg/m ³	Non-applicable


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Methanol	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	6.83 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	12.05 mg/m ³	Non-applicable

DNELs (General Population)

<i>Ingredient name:</i>	<i>Exposure</i>	<i>Short term</i>		<i>Long term</i>	
		<i>Systemic</i>	<i>Local</i>	<i>Systemic</i>	<i>Local</i>
n-Butyl Acetate Butyl ethanoate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Inhalation</i>	859.7 mg/m ³	859.7 mg/m ³	102.34 mg/m ³	102.34 mg/m ³
Xylene (mixture of isomers)	<i>Oral</i>	Non-applicable	Non-applicable	1.6 mg/kg	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	14.8 mg/m ³	Non-applicable
Ethyl benzene	<i>Oral</i>	Non-applicable	Non-applicable	1.6 mg/kg	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable
2-butoxyethanol	<i>Oral</i>	13.4 mg/kg	Non-applicable	3.2 mg/kg	Non-applicable
	<i>Dermal</i>	44.5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
	<i>Inhalation</i>	426 mg/m ³	123 mg/m ³	49 mg/m ³	Non-applicable



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1-methoxy-2-propanol	<i>Oral</i>	Non-applicable	Non-applicable	3.3 mg/kg	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	18.1 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	43.9 mg/m ³	Non-applicable
Methanol	<i>Oral</i>	Non-applicable	Non-applicable	6.87 mg/Kg bw/day	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	3.42 mg/Kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	2.97 mg/m ³	Non-applicable

PNEC

<i>Ingredient name:</i>	<i>Environmental sphere</i>	<i>PNEC value</i>
n-Butyl Acetate Butyl ethanoate	<i>Fresh water</i>	0.18 mg/L
	<i>Marine water</i>	0.018 mg/L
	<i>Fresh water sediment</i>	0.981 mg/kg
	<i>Marine water sediment</i>	0.0981 mg/kg
	<i>Sewage Treatment</i>	35.6 mg/L
	<i>Soil</i>	0.0903 mg/kg
Xylene (mixture of isomers)	<i>Fresh water</i>	0.327 mg/L
	<i>Marine water</i>	0.327 mg/L
	<i>Fresh water sediment</i>	12.46 mg/kg
	<i>Marine water sediment</i>	12.46 mg/kg
	<i>Sewage Treatment</i>	6.58 mg/L
	<i>Soil</i>	2.31 mg/kg



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Ethyl benzene	<i>Fresh water</i>	0.1 mg/L
	<i>Marine water</i>	0.01 mg/L
	<i>Fresh water sediment</i>	13.7 mg/kg
	<i>Marine water sediment</i>	1.37 mg/kg
	<i>Sewage Treatment</i>	9.6 mg/L
	<i>Soil</i>	2.68 mg/kg
2-butoxyethanol	<i>Fresh water</i>	8.8 mg/L
	<i>Marine water</i>	0.88 mg/L
	<i>Fresh water sediment</i>	34.6 mg/kg
	<i>Marine water sediment</i>	No data available
	<i>Sewage Treatment</i>	463 mg/L
	<i>Soil</i>	3.13 mg/kg
1-methoxy-2-propanol	<i>Fresh water</i>	10 mg/L
	<i>Marine water</i>	1 mg/L
	<i>Fresh water sediment</i>	52.3 mg/kg
	<i>Marine water sediment</i>	5.2 mg/kg
	<i>Sewage Treatment</i>	100 mg/L
	<i>Soil</i>	5.49 mg/kg
Methanol	<i>Fresh water</i>	154 mg/L
	<i>Marine water</i>	15.4 mg/L
	<i>Fresh water sediment</i>	570.4 mg/kg
	<i>Marine water sediment</i>	No data available
	<i>Sewage Treatment</i>	100 mg/L
	<i>Soil</i>	23.5 mg/kg

8.2 Exposure controls:

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.



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8.3 Individual protection measures, such as personal protective equipment (PPE)

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.



Skin protection

For hands, chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture that can provide information about the breakthrough time of the glove material.

For body, Personal protective equipment should be selected based on the task being performed and the risks involved.

For feet, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.



Protective gloves



Overall



Safety boots

Respiratory Protection

When spraying, use air-fed respirator. Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.

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. SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Physical State

Liquid

Colour

Black

Odour

Characteristic



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<i>Odour threshold</i>	Not available
<i>pH</i>	Not available
<i>Melting point</i>	Not available
<i>Freezing point</i>	Not available
<i>Initial boiling point</i>	131°C
<i>Boiling range</i>	Not available
<i>Flash point</i>	24 - 26°C
<i>Evaporation rate</i>	Not available
<i>Flammability (solid, gas)</i>	Not available
<i>Upper/lower Flammability or Explosive limits</i>	Not available
<i>Vapour pressure</i>	1146 Pa @ 20°C
<i>Vapour density</i>	Not available
<i>Relative density</i>	Not available
<i>Solubility(ies)</i>	Not available
<i>Partition coefficient n-octanol/water</i>	Not available
<i>Auto-ignition temperature</i>	238°C
<i>Decomposition temperature</i>	Not available
<i>Viscosity</i>	Not available
<i>Explosive properties</i>	Not available
<i>Oxidising properties</i>	Not available

10. SECTION 10: Stability and reactivity

10.1 Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability:

This product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

In a fire, hazardous decomposition products may be produced.

10.5 Incompatible materials

Keep away from: oxidising agents, strong alkalis and strong acids.

10.6 Hazardous decomposition products

Decomposition products may include the following materials: carbon monoxide, carbon dioxide and smoke.


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11. SECTION 11: Toxicological information
11.1. Information on toxicological effects

<i>Ingredient name:</i>	<i>Acute toxicity test</i>	<i>Species</i>	<i>Dose</i>	<i>Exposure</i>
n-Butyl Acetate Butyl ethanoate	<i>Oral – LD₅₀</i>	Rat	>10700 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	17600 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	>21 mg/L	4 hrs
Xylene (mixture of isomers)	<i>Oral – LD₅₀</i>	Rat	>3500 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	>4200 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	>20 mg/L	4 hrs
Solvent naphtha (Petroleum), light arom. < 0.1% EC 200- 753-7	<i>Oral – LD₅₀</i>	Rat	2100 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	2000 mg/kg	
	<i>Inhalation – LC₅₀</i>		Non-applicable	
Ethyl benzene	<i>Oral – LD₅₀</i>	Rat	3500 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	15354 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	17.2 mg/L	4 hrs
2-butoxyethanol	<i>Oral – LD₅₀</i>	Rat	500 mg/kg	
	<i>Dermal – LD₅₀</i>	Rat	1100 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	11 mg/L	4 hrs
1-methoxy-2-propanol	<i>Oral – LD₅₀</i>		>2000 mg/kg	
	<i>Dermal – LD₅₀</i>		>2000 mg/kg	
	<i>Inhalation – LC₅₀</i>		Non-applicable	



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Methanol	<i>Oral – LD₅₀</i>	Rat	100 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	300 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	3 mg/L	4 hrs

*Skin corrosion/
irritation*

Ingestion – Based on available data, the classification criteria are not met, however, it does contain substances classified as dangerous for this effect. For more information see section 3.

Inhalation – Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

*Serious eye
damage/irritation*

Based on available Data, the classification criteria are not met. The liquid splashed in the eyes may cause irritation and reversible damage.

*Respiratory or
skin sensitization*

Based on available data the classification criteria are not met as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. Repeated exposure may cause skin dryness or cracking.

*Germ cell
mutagenicity*

Based on available data the classification criteria are not met as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

Carcinogenicity

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

Reproductive toxicity

Based on available data, the classification criteria are not met as it does not contain substances classified as dangerous for this effect. For more information see section 3.

*Specific target
organ toxicity -
single exposure*

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

*Specific target
organ toxicity -
repeated exposure*

Based on available data, the classification criteria are not met, however, it does contain substances classified as dangerous with repeated exposure. For more information see section 3.

Aspiration hazard

Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.


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12. SECTION 12: Ecological Information
12.1. Toxicity

<i>Ingredient name:</i>	<i>Acute toxicity test</i>	<i>Genus - Species</i>	<i>Dose</i>	<i>Exposure</i>
n-Butyl Acetate Butyl ethanoate	<i>LC</i> ₅₀	Fish - Lepomis macrochirus (Bluegill)	100 mg/L	96 hrs
	<i>EC</i> ₅₀	Daphnia magna (Water flea)	44 mg/L	48 hrs
	<i>EC</i> ₅₀	Algae – Desmodesmus subspicatus (Scenedesmus subspicatus)	674.7 mg/L	72 hrs
Xylene (mixture of isomers)	<i>LC</i> ₅₀	Fish - Oncorhynchus mykiss	13.5 mg/L	96 hrs
	<i>EC</i> ₅₀	Crustacean - Gammarus lacustris	0.6 mg/L	96 hrs
	<i>EC</i> ₅₀	Algae – Skeletonema costatum	10 mg/L	72 hrs
Solvent naphtha (Petroleum), light arom. < 0.1% EC 200-753-7	<i>LC</i> ₅₀	Fish -	1 - 10 mg/L	96 hrs
	<i>EC</i> ₅₀	Crustacean -	1- 10 mg/L	
	<i>EC</i> ₅₀	Algae –	1 - 10 mg/L	
Ethyl benzene	<i>LC</i> ₅₀	Fish – Pimephales promelas	42.3 mg/L	96 hrs
	<i>EC</i> ₅₀	Crustacean – Daphnia magna	75 mg/L	48 hrs
	<i>EC</i> ₅₀	Algae – Chlorella vulgaris	63 mg/L	3 hrs
2-butoxyethanol	<i>LC</i> ₅₀	Fish - Lepomis macrochirus (Bluegill)	1490 mg/L	96 hrs
	<i>EC</i> ₅₀	Daphnia magna (Water flea)	1815 mg/L	48 hrs
	<i>EC</i> ₅₀	Algae – Pseudokirchnerella subcapitata	911 mg/L	72 hrs



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1-methoxy-2-propanol	<i>LC₅₀</i>	Fish – Pimephales promelas	20800 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean – Daphnia magna	23300 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Selenastrum capricornutum	1000 mg/L	168 hrs
Methanol	<i>LC₅₀</i>	Fish - Lepomis macrochirus:	15400 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean - Daphnia magna (Water flea)	>10000 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Selenastrum capricornutum:	22000 mg/L	96 hrs

12.2. Persistence and degradability

<i>Ingredient name:</i>	<i>Concentration</i>	<i>Duration of test</i>	<i>% Biodegradability</i>
n-Butyl Acetate Butyl ethanoate	3 mg/L	28 days	83
Xylene (mixture of isomers)			Readily biodegradable
Ethyl benzene	100 mg/L	14 days	90
2-butoxyethanol	100 mg/L	14 days	96
1-methoxy-2-propanol	100 mg/L	28 days	90
Methanol	100 mg/L	14 days	92

12.3. Bioaccumulative potential

<i>Ingredient name:</i>	<i>BCF</i>	<i>Log P_{ow}</i>	<i>Potential</i>
n-Butyl Acetate Butyl ethanoate	15.3	2.3	Low
Xylene (mixture of isomers)	9	2.77	Low
Solvent naphtha (Petroleum), light arom. < 0.1% EC 200-753-7		4	
Ethyl benzene	1	3.15	Low



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2-butoxyethanol	3	0.83	Low
1-methoxy-2-propanol	3	-0.44	Low
Methanol	10	-0.77	Low

12.4. Mobility in soil

<i>Ingredient name:</i>	<i>K_{oc}</i>	<i>HLC</i> <i>(Henry's law constant)</i>	<i>Surface tension</i>
n-Butyl Acetate Butyl ethanoate	< 70	41.6 Pa m ³ /mol @ 25°C	No data available
Xylene (mixture of isomers)	202	524.9 Pa.m ³ /mol	No data available
Ethyl benzene	520	798.4 Pa.m ³ /mol	28590 N/m (25C)
2-butoxyethanol	8	1.621E-1 Pa.m ³ /mol	27290 N/m (25C)
Methanol	9	0.461 Pa m ³ /mol @ 25°C	No data available

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No known significant effects or critical hazards.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Classification of waste according to Commission Regulation (EU) No 1357/2014



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European waste catalogue (EWC)

<i>Waste code</i>	<i>Description</i>
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances.

Packaging

<i>Waste code</i>	<i>Description</i>
15 01 04	Metallic cans

14. SECTION 14: Transport information

		<i>Land</i>	<i>Inland Waterways</i>	<i>Sea</i>	<i>Air</i>
		<i>ADR/RID</i>	<i>ADN</i>	<i>IMDG</i>	<i>ICAO</i>
<i>14.1.</i>	<i>UN number</i>	UN1263		UN1263	UN1263
<i>14.2.</i>	<i>UN proper shipping name</i>	Paint Related Material		Paint Related Material	Paint Related Material
<i>14.3.</i>	<i>Transport hazard class(es)</i>	3		3	3
<i>14.4.</i>	<i>Packing group</i>	III		III	III
<i>14.5.</i>	<i>Environmental hazards Environmentally hazardous - Marine pollutant -----</i>	No -		- No	No -
<i>14.6</i>	<i>Special precautions for user</i>				
	<i>Special regulations</i>	163, 367, 640E, 650		163, 223, 944, 955	
	<i>Tunnel restriction code</i>	D/E			
	<i>EmS codes</i>			F-E, S-E	
	<i>Physico-chemical properties</i>	See section 9		See section 9	See section 9
	<i>Limited quantities</i>	5L		5L	



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14.7	<i>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</i>	Non-applicable		Non-applicable	Non-applicable
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15. SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation.

None of the ingredients of this mixture are listed in Annex XIV.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Not applicable.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

16. SECTION 16: Other information

This safety data sheet conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830.

Abbreviations and Acronyms

DNEL	-	Derived No Effect Level
PNEC	-	Predicted No Effect Concentration
EUH statement	-	CLP-specific Hazard statement
ADR	-	European agreement concerning the international carriage of dangerous goods by road.
IMDG	-	International maritime dangerous goods code.
IATA	-	International Air Transport Association.
ICAO	-	International Civil Aviation Organisation.
BCF	-	Bio Concentration Factor
LD ₅₀	-	Lethal Dose 50
LC ₅₀	-	Lethal Concentration 50
EC ₅₀	-	Effective Concentration 50
Log P _{ow}	-	Octanol-water partition coefficient
K _{oc}	-	Partition coefficient of organic carbon
ATEi	-	Acute Toxicity Estimate of ingredient i.

Full Text of Physical Hazards

H226 – Flammable liquid and vapour.



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Full Text of Health Hazards

H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.

Full Text of Environmental Hazards

H412 - Harmful to aquatic life with long lasting effects.

Full Text of CLP/GHS Classifications

Flam. Liq. 2	H225	Highly flammable liquid and vapour
Flam. Liq. 3	H226	Flammable liquid and vapour
Acute Tox. 3	H301	Toxic if swallowed.
Acute Tox. 4	H302	Harmful if swallowed
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways
Acute Tox. 3	H311	Toxic in contact with skin.
Acute Tox. 4	H312+H332	Harmful in contact with skin or if inhaled
Skin Irrit. 2	H315	Causes skin irritation
Eye Irrit. 2,	H319	Causes serious eye irritation.
Acute Tox. 3,	H331	Toxic if inhaled
Acute Tox. 4	H332	Harmful if inhaled
STOT SE 3	H335	May cause respiratory irritation
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT Single 1,	H370	Causes damage to organs.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure
Aquatic Chronic 2,	H411	Toxic to aquatic life with long lasting effects.
EUH066		Repeated exposure may cause skin dryness or cracking.

About this Safety Data Sheet.

The United Nations developed a 'Globally Harmonised System' (GHS) on classification and labelling of chemicals and the CLP Regulation adopts this system across all European Union countries, including the UK.

'CLP' is the European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Churchill safety data sheets conform to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK).

When changes are required to Safety Data Sheets, these will be highlighted in the subsequent revision with a red bar to the left hand side of the change.



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Disclaimer

The information contained in this safety data sheet is based on the state of knowledge and national legislation at the time of the 'revision date' shown on page 1. Further updates to this safety data sheet, in line with changes to legislation and technical knowledge, will be available from Churchill Paints or the Churchill website. Contact Churchill Paints for the latest revision. This safety data sheet 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. It is the user's responsibility to ascertain the suitability of the product for a specific use. 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.
