

**2K CONVERTER**

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: 09

Revision: 14.12.2015
(Previous revision 19.04.2013)

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

1.1 Product Identifier;

Product Name 2K Converter

Product Code: 0407

Product Synonyms:

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

Product use Professional use only. Industrial applications

**Use of the
Substance/mixture** Additive for coatings.

1.3 Details of the supplier of the safety data sheet;

Churchill Paints Ltd
Riverdane Road, Eaton Bank Trading Estate,
Congleton, Cheshire, CW12 1PN
Tel. +44(0)1260 290666, Fax. +44(0)1260 290 444

**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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Skin Sens. 1, H317
 Eye Irrit. 2, H319
 STOT SE 3, H335-H336
 STOT RE 2, H373

**Environmental
 hazards**

Not Classified

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.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H335-H336 - May cause respiratory irritation. May cause drowsiness or dizziness.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 Get medical advice/attention if you feel unwell.

Storage

P403+233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

Not applicable

**Hazardous
 Ingredients**

Not applicable

**Supplemental
 label elements**

Not applicable

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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>
01-2119488216-32	Xylene (mixture of isomers)	≥ 20 - < 30	1330-20-7	215-535-7	601-022-00-9	Acute Tox. 4, H312+H332 Flam. Liq. 3, H226 Skin Irrit. 2, H315
01-2119485493-29	n-Butyl Acetate Butyl ethanoate	≥ 20 - < 40	123-86-4	204-658-1	607-025-00-1	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
01-2119489370-35	Ethylbenzene	≥ 3 - < 7	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373; Asp. Tox. 1, H304
01-2119452498-28	methyl methacrylate	< 1	80-62-6	201-297-1	607-035-00-6	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335
01-2119488331-38	isobutyl methacrylate	< 1	97-86-9	202-613-0	607-113-00-X	Flam. Liq. 3, H226; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

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01-2119490226-37	methacrylic acid, monoester with propane-1,2-diol	< 0.2	27813-02-1	248-666-3		Eye Irrit. 2, H319; Skin Sens. 1, H317
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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.

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.

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

Eye contact There may be irritation and pain.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest. There may be a feeling of tightness in the chest with shortness of breath.

Skin contact There may be redness or whiteness of the skin in the area of exposure. An itchy rash may occur at the site of contact.

Ingestion Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.

Delayed / immediate effects

There may be drowsiness, slurred speech, muscular weakness, muscle twitching, tremor, blurred vision, dilated pupils and shock. There may be vomiting and diarrhoea.

**2K CONVERTER****4.3. Indication of any immediate medical attention and special treatment needed**

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Immediate / special treatment: Eye bathing equipment should be available on the premises.

5. SECTION 5: Firefighting measures
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5.1. Extinguishing media**Suitable extinguishing media**

Carbon dioxide. Dry chemical powder. Alcohol resistant foam.

Unsuitable extinguishing media

Do not use water jet.

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

Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture.

Hazardous combustion products

Decomposition products may include the following materials:

Carbon dioxide
Carbon monoxide

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)

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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 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 noncombustible, 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.

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.

**2K CONVERTER****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.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions 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)

Not available.

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).

**2K CONVERTER****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>
Xylene	Sk	50	220	100	441
n-Butyl Acetate		150	724	200	966
Ethylbenzene	Sk	100	441	125	552
methyl methacrylate		50	208	100	416

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

Sk : Can be absorbed through skin

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>
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
n-Butyl Acetate	<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

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Ethylbenzene	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	180 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	293 mg/m ³	77 mg/m ³	Non-applicable
methyl methacrylate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	13.67 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	208 mg/m ³	208 mg/m ³
isobutyl methacrylate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	5 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	415.9 mg/m ³	409 mg/m ³
methacrylic acid, monoester with propane-1,2-diol	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	4.2 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	14.7 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>
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
n-Butyl Acetate	<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

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Ethylbenzene	<i>Oral</i>	Non-applicable	Non-applicable	1.6 mg/Kg bw/day	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
methyl methacrylate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	8.2 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	74.3 mg/m ³	104 mg/m ³
isobutyl methacrylate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	3 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	66.5 mg/m ³	366.4 mg/m ³
methacrylic acid, monoester with propane-1,2-diol	<i>Oral</i>	Non-applicable	Non-applicable	2.5 mg/kg bw/day	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	2.5 mg/kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	8.8 mg/m ³	Non-applicable

PNEC

<i>Ingredient name:</i>	<i>Environmental sphere</i>	<i>PNEC value</i>
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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n-Butyl Acetate	<i>Fresh water</i> <i>Marine water</i> <i>Fresh water sediment</i> <i>Marine water sediment</i> <i>Sewage Treatment</i> <i>Soil</i>	0.18 mg/L 0.018 mg/L 0.981 mg/kg 0.0981 mg/kg 35.6 mg/L 0.0903 mg/kg
Ethylbenzene	<i>Fresh water</i> <i>Marine water</i> <i>Fresh water sediment</i> <i>Marine water sediment</i> <i>Sewage Treatment</i> <i>Soil</i>	0.1 mg/L 0.01 mg/L 13.7 mg/kg No data available 9.6 mg/L 2.68 mg/kg
methyl methacrylate	<i>Fresh water</i> <i>Marine water</i> <i>Fresh water sediment</i> <i>Marine water sediment</i> <i>Sewage Treatment</i> <i>Soil</i>	0.94 mg/L 0.94 mg/L 5.74 mg/kg No exposure of sediment expected 10 mg/L 1.47 mg/kg
isobutyl methacrylate	<i>Fresh water</i> <i>Marine water</i> <i>Fresh water sediment</i> <i>Marine water sediment</i> <i>Sewage Treatment</i> <i>Soil</i>	0.021 mg/L 0.0021 mg/L 5.89 mg/kg 0.589 mg/kg 10 mg/L 1.16 mg/kg
methacrylic acid, monoester with propane-1,2-diol	<i>Fresh water</i> <i>Marine water</i> <i>Fresh water sediment</i> <i>Marine water sediment</i> <i>Sewage Treatment</i> <i>Soil</i>	0.904 mg/L 0.904 mg/L 6.28 mg/kg 6.28 mg/kg 10 mg/L 0.727 mg/kg



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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.

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

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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

<i>Physical State</i>	Liquid
<i>Colour</i>	Colourless to slightly yellow
<i>Odour</i>	Characteristic
<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>	124°C
<i>Boiling range</i>	Not available
<i>Flash point</i>	25°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>	Not available
<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>	Not available
<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.

**2K CONVERTER****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, strong acids.

10.6. Hazardous decomposition products

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

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

<i>Ingredient name:</i>	<i>Acute toxicity test</i>	<i>Species</i>	<i>Dose</i>	<i>Exposure</i>
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
n-Butyl Acetate	<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
Ethylbenzene	<i>Oral – LD₅₀</i>	Rat	3500 mg/kg bw	
	<i>Dermal – LD₅₀</i>	Rabbit	>5000 mg/kg bw	
	<i>Inhalation – LC₅₀</i>	Rabbit	4000 ppm	4 hrs
methyl methacrylate	<i>Oral – LD₅₀</i>	Rat	7872 mg/kg bw	
	<i>Dermal – LD₅₀</i>	Rabbit	>5000 mg/kg bw	
	<i>Inhalation – LC₅₀</i>	Rat	29.8 mg/L air	4 hrs

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isobutyl methacrylate	<i>Oral – LD₅₀</i>	Rat	9590 mg/kg bw	
	<i>Dermal – LD₅₀</i>	Rabbit	No data available	
	<i>Inhalation – LC₅₀</i>	Rat	No data available	
methacrylic acid, monoester with propane-1,2-diol	<i>Oral – LD₅₀</i>	Rat	>2000 mg/kg bw	
	<i>Dermal – LD₅₀</i>	Rabbit	>5000 mg/kg bw	
	<i>Inhalation – LC₅₀</i>	Rat	No data available	

Skin corrosion/irritation

There may be redness or whiteness of the skin in the area of exposure. An itchy rash may occur at the site of contact.

Serious eye damage/irritation

There may be irritation and pain.

Respiratory or skin sensitization

There may be irritation of the throat with a feeling of tightness in the chest. There may be a feeling of tightness in the chest with shortness of breath.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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

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 - 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, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**2K CONVERTER****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>
Xylene (mixture of isomers)	<i>LC₅₀</i>	Fish - Oncorhynchus mykiss (Rainbow trout)	13.5 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean - Gammarus lacustris	0.6 mg/L	96 hrs
	<i>EC₅₀</i>	Algae – Skeletonema costatum	10 mg/L	72 hrs
n-Butyl Acetate	<i>LC₅₀</i>	Fish - Lepomis macrochirus (Bluegill)	100 mg/L	96 hrs
	<i>EC₅₀</i>	Daphnia magna (Water flea)	44 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Desmodesmus subspicatus (Scenedesmus subspicatus)	674.7 mg/L	72 hrs
Ethylbenzene	<i>LC₅₀</i>	Fish	4.2 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean - Daphnia magna (Water flea)	2.93 mg/L	48 hrs
	<i>EC₅₀</i>	Algae	7.2 mg/L	48 hrs
methyl methacrylate	<i>LC₅₀</i>	Fish - Oncorhynchus mykiss (Rainbow trout)	>79 mg/L	96 hrs
	<i>EC₅₀</i>	Daphnia magna (Water flea)	69 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Pseudokirchnerella subcapitata	>110 mg/L	72 hrs
isobutyl methacrylate	<i>LC₅₀</i>	Fish - Oncorhynchus mykiss (Rainbow trout)	20 mg/L	96 hrs
	<i>EC₅₀</i>	Daphnia magna (Water flea)	>29 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Pseudokirchnerella subcapitata	44 mg/L	72 hrs
methacrylic acid, monoester with propane-1,2-diol	<i>LC₅₀</i>	Fish - Leuciscus idus melanotus (Golden orfe)	493 mg/L	48 hrs
	<i>EC₅₀</i>	Daphnia magna (Water flea)	>143 mg/L	48 hrs
	<i>EC₅₀</i>	Algae – Pseudokirchnerella subcapitata	>97.2 mg/L	72 hrs

**2K CONVERTER***12.2. Persistence and degradability*

<i>Ingredient name:</i>	<i>Concentration</i>	<i>Duration of test</i>	<i>% Biodegradability</i>
Xylene			Readily biodegradable
n-Butyl Acetate		28 days	83
Ethylbenzene	22 mg/L	28 days	70
methyl methacrylate			No data available
isobutyl methacrylate		28 days	74.3
methacrylic acid, monoester with propane-1,2-diol	100 mg/L	28 days	81

12.3. Bioaccumulative potential

<i>Ingredient name:</i>	<i>BCF</i>	<i>Log P_{ow}</i>	<i>Potential</i>
Xylene	25.9	3.2	Low
n-Butyl Acetate	15.3	2.3	Low
Ethylbenzene	1	3.15	Low
methyl methacrylate	6.59	1.24	Low
isobutyl methacrylate	19.8 – 61.9	3.33	Low
methacrylic acid, monoester with propane-1,2-diol	3.2	0.97	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>
Xylene (mixture of isomers)	202	524.9 Pa.m ³ /mol	28.75 mN/m

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n-Butyl Acetate	< 70	41.6 Pa m ³ /mol @ 25°C	61.3 mN/m
Ethylbenzene	446.1	800 Pa m ³ /mol @ 25°C	71.2 mN/m
methyl methacrylate	No data available	No data available	No data available
isobutyl methacrylate	No data available	No data available	No data available
methacrylic acid, monoester with propane-1,2-diol	No data available	No data available	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
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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.

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

**2K CONVERTER****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>
14.1. <i>UN number</i>	UN1263	UN1263	UN1263	UN1263
14.2. <i>UN proper shipping name</i>	Paint related material	Paint related material	Paint related material	Paint related material
14.3. <i>Transport hazard class(es)</i>	3	3	3	3
14.4. <i>Packing group</i>	III	III	III	III
14.5. <i>Environmental hazards. Environmentally hazardous</i>	No	No	No	No
<i>Marine pollutant</i>	No	No	No	No
14.6. <i>Special precautions for user</i>				
<i>Tunnel restriction code</i>	D/E			

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.

**2K CONVERTER***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

Full Text of Physical Hazards

H226 - Flammable liquid and vapour.

Full Text of Health Hazards

H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H335-H336 - May cause respiratory irritation. May cause drowsiness or dizziness.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Full Text of Environmental Hazards

N/A

Full Text of CLP/GHS Classifications

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Flam. Liq. 3	H226	Flammable liquid and vapour
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Acute Tox. 4	H312	Harmful in contact with skin.
Skin Irrit. 2	H315	Causes skin irritation
Skin Sens. 1	H317	May cause an allergic skin reaction.
Eye Irrit. 2	H319	Causes serious eye irritation.
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 RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1	H400	Very toxic to aquatic life.



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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.
