

**2K MS CRYSTAL CLEAR Anti-Scratch**

# 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: 22.02.2016  
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## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking;

### 1.1 Product Identifier;

**Product Name** 2K MS Crystal Clear Anti-Scratch

**Product Code:** 0210

**Product Synonyms:**

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

**Product use** Professional use only. Used by spraying.

**Use of the  
Substance/mixture** Coating.

### 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](mailto: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. 2, H225

**Health hazard** Skin Irrit. 2, H315

**2K MS CRYSTAL CLEAR Anti-Scratch*****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***

Danger

***Hazard statements***

H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.

***Precautionary Statements******Prevention***

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.

***Response***

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P370+P378 - In case of fire: use powder, foam or CO2 for extinction.

***Storage***

P403 + P235 – Store in a well-ventilated place. Keep cool.

***Disposal***

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

***Hazardous Ingredients***

Not applicable

***Supplemental label elements***

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains mixture of sterically composed sebacates.  
May produce an allergic reaction.

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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.

<b>3. SECTION 3: Composition/information on ingredients</b>
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**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)	≥25 - <50	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	≥2.5 - <10	123-86-4	204-658-1	607-025-00-1	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
01-2119475112-47	2-butoxyethyl acetate; Butyl glycol acetate	≥2.5 - <10	112-07-2	203-933-3	607-038-00-2	Acute Tox. 4, H332 Acute Tox. 4, H312
01-2119471330-49	Acetone	≥2.5 - <10	67-64-1	200-662-2	606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066
	mixture of benzotriazol	< 1	104810-48-2	400-830-7	607-176-00-3	Skin Sens. 1, H317; Aquatic Chronic 2, H411; EUH208
	mixture of sterically composed sebacates	< 0.5	41556-26-7	255-437-1		Skin Sens. 1, H317; Aquatic. Acute 1, H400; Aquatic Chronic 1, H410; EUH208;

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	mixture of sterically composed sebacates	< 0.5	82919-37-7	280-060-4		Skin Sens. 1, H317; Aquatic. Acute 1, H400; Aquatic Chronic 1, H410; EUH208;
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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**

<b>Eye contact</b>	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
<b>Inhalation</b>	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 or oxygen by trained personnel. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
<b>Protection of first-aiders</b>	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**

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	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.
<b>Skin contact</b>	Defatting to the skin. May cause skin dryness and irritation.
<b>Ingestion</b>	Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
<b>Delayed / immediate effects</b>	There may be drowsiness, slurred speech, muscular weakness, muscle twitching, tremor, blurred vision, dilated pupils and shock. There may be vomiting and diarrhoea.



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### 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. 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:** Eye bathing equipment should be available on the premises.

## 5. SECTION 5: Firefighting measures

### 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**

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. Runoff to sewer may create fire or explosion hazard.

**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).

#### 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 MS CRYSTAL CLEAR Anti-Scratch****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 MS CRYSTAL CLEAR Anti-Scratch****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/m<sup>3</sup></i>	<i>ppm.</i>	<i>mg/m<sup>3</sup></i>
<b>Xylene (mixture of isomers)</b>	<b>Sk</b>	<b>50</b>	<b>220</b>	<b>100</b>	<b>441</b>
<b>n-Butyl Acetate Butyl ethanoate</b>		<b>150</b>	<b>724</b>	<b>200</b>	<b>966</b>
<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	<b>Sk</b>	<b>20</b>	<b>133</b>	<b>50</b>	<b>332</b>
<b>Acetone</b>		<b>500</b>	<b>1210</b>	<b>1500</b>	<b>3620</b>

*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>
<b>Xylene (mixture of isomers)</b>	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	<b>180 mg/kg</b>	Non-applicable
	<i>Inhalation</i>	<b>289 mg/m<sup>3</sup></b>	<b>289 mg/m<sup>3</sup></b>	<b>77 mg/m<sup>3</sup></b>	Non-applicable
<b>n-Butyl Acetate Butyl ethanoate</b>	<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>	<b>960 mg/m<sup>3</sup></b>	<b>960 mg/m<sup>3</sup></b>	<b>480 mg/m<sup>3</sup></b>	<b>480 mg/m<sup>3</sup></b>



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<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	120 mg/Kg bw	Non-applicable	169 mg/kg bw	Non-applicable
	<i>Inhalation</i>	333 mg/m <sup>3</sup>	Non-applicable	133 mg/m <sup>3</sup>	Non-applicable
<b>Acetone</b>	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	185 mg/Kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	2420 mg/m <sup>3</sup>	1210 mg/m <sup>3</sup>	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>
<b>Xylene (mixture of isomers)</b>	<i>Oral</i>	Non-applicable	Non-applicable	1.6 mg/kg bw/day	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	108 mg/Kg bw/day	Non-applicable
	<i>Inhalation</i>	174 mg/m <sup>3</sup>	174 mg/m <sup>3</sup>	14.8 mg/m <sup>3</sup>	Non-applicable
<b>n-Butyl Acetate Butyl ethanoate</b>	<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 <sup>3</sup>	859.7 mg/m <sup>3</sup>	102.34 mg/m <sup>3</sup>	102.34 mg/m <sup>3</sup>
<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	<i>Oral</i>	72 mg/Kg bw	Non-applicable	8.6 mg/kg bw	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	102 mg/kg bw	Non-applicable
	<i>Inhalation</i>	Non-applicable	200 mg/m <sup>3</sup>	80 mg/m <sup>3</sup>	Non-applicable

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<b>Acetone</b>	<i>Oral</i>	Non-applicable	Non-applicable	62 mg/m <sup>3</sup>	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	62 mg/Kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	200 mg/m <sup>3</sup>	Non-applicable

*PNEC*

<i>Ingredient name:</i>	<i>Environmental sphere</i>	<i>PNEC value</i>
<b>Xylene (mixture of isomers)</b>	<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
<b>n-Butyl Acetate Butyl ethanoate</b>	<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
<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	<i>Fresh water</i>	0.304 mg/L
	<i>Marine water</i>	0.0304 mg/L
	<i>Fresh water sediment</i>	2.03 mg/kg
	<i>Marine water sediment</i>	0.203 mg/kg
	<i>Sewage Treatment</i>	90 mg/L
	<i>Soil</i>	0.415 mg/kg

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<b>Acetone</b>	<i>Fresh water</i>	10.6 mg/L
	<i>Marine water</i>	1.06 mg/L
	<i>Fresh water sediment</i>	30.4 mg/kg
	<i>Marine water sediment</i>	3.04 mg/kg
	<i>Sewage Treatment</i>	100 mg/L
	<i>Soil</i>	29.5 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.

**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.

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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.

<b>9. SECTION 9: Physical and Chemical Properties</b>
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**9.1. Information on basic physical and chemical properties****Appearance****Physical State**

Liquid

**Colour**

Colourless to pale amber

**Odour**

Characteristic

**Odour threshold**

Not available

**pH**

Not available

**Melting point**

Not available

**Freezing point**

Not available

**Initial boiling point**

56°C

**Boiling range**

Not available

**Flash point**

4°C

**Evaporation rate**

Not available

**Flammability****(solid, gas)**

Not available

**Upper/lower****Flammability or****Explosive limits**

13 / 1.1 vol %

**Vapour pressure**

24738 Pa @ 20°C

**Vapour density**

Not available

**Relative density**

0.95 - 0.96

**Solubility(ies)**

Not available

**Partition coefficient****n-octanol/water**

Not available

**Auto-ignition****temperature**

280°C

**Decomposition****temperature**

Not available

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<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, 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****11.1 Information on toxicological effects**

<i>Ingredient name:</i>	<i>Acute toxicity test</i>	<i>Species</i>	<i>Dose</i>	<i>Exposure</i>
<b>Xylene (mixture of isomers)</b>	<i>Oral – LD<sub>50</sub></i>	Rat	>3500 mg/kg	
	<i>Dermal – LD<sub>50</sub></i>	Rabbit	>4200 mg/kg	
	<i>Inhalation – LC<sub>50</sub></i>	Rat	>20 mg/L	4 hrs
<b>n-Butyl Acetate Butyl ethanoate</b>	<i>Oral – LD<sub>50</sub></i>	Rat	>10700 mg/kg	
	<i>Dermal – LD<sub>50</sub></i>	Rabbit	17600 mg/kg	
	<i>Inhalation – LC<sub>50</sub></i>	Rat	>21 mg/L	4 hrs

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2-butoxyethyl acetate; Butyl glycol acetate	<i>Oral – LD<sub>50</sub></i>	Rat	1880 mg/kg bw	
	<i>Dermal – LD<sub>50</sub></i>	Rabbit	1500 mg/kg bw	
	<i>Inhalation – LC<sub>50</sub></i>	Rat	LD <sub>50</sub> not achieved in	8 hrs
Acetone	<i>Oral – LD<sub>50</sub></i>	Rat	5800 mg/kg	
	<i>Dermal – LD<sub>50</sub></i>	Rabbit	>2000 mg/kg	
	<i>Inhalation – LC<sub>50</sub></i>	Rat	>20 mg/L	4 hrs

***Skin corrosion/  
irritation***

The product may be absorbed through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

***Serious eye  
damage/irritation***

The liquid splashed in the eyes may cause irritation and reversible damage.

***Respiratory or  
skin sensitization***

No data available

***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***

May cause drowsiness or dizziness.

***Specific target  
organ toxicity -  
repeated exposure***

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

***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.

<b>12. SECTION 12: Ecological Information</b>
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**12.1. Toxicity**

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<i>Ingredient name:</i>	<i>Acute toxicity test</i>	<i>Genus - Species</i>	<i>Dose</i>	<i>Exposure</i>
<b>Xylene (mixture of isomers)</b>	<i>LC<sub>50</sub></i>	Fish - Oncorhynchus mykiss	13.5 mg/L	96 hrs
	<i>EC<sub>50</sub></i>	Crustacean - Gammarus lacustris	0.6 mg/L	96 hrs
	<i>EC<sub>50</sub></i>	Algae – Skeletonema costatum	10 mg/L	72 hrs
<b>n-Butyl Acetate Butyl ethanoate</b>	<i>LC<sub>50</sub></i>	Fish - Lepomis macrochirus (Bluegill)	100 mg/L	96 hrs
	<i>EC<sub>50</sub></i>	Invertebrates - Daphnia magna (Water flea)	44 mg/L	48 hrs
	<i>EC<sub>50</sub></i>	Algae – Desmodesmus subspicatus (Scenedesmus subspicatus)	674.7 mg/L	72 hrs
<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	<i>LC<sub>50</sub></i>	Fish - Oncorhynchus mykiss	> 20 < 40 mg/L	96 hrs
	<i>EC<sub>50</sub></i>	Invertebrates - Daphnia magna (Water flea)	37 mg/L	48 hrs
	<i>EC<sub>50</sub></i>	Algae – Pseudokirchnerella subcapitata	1570 mg/L	72 hrs
<b>Acetone</b>	<i>LC<sub>50</sub></i>	Fish - Salmo gairdneri,	>100 mg/L	96 hrs
	<i>EC<sub>50</sub></i>	Crustacean - Daphnia magna (Water flea)	>100 mg/L	48 hrs
	<i>EC<sub>50</sub></i>	Algae – Pseudokirchneriella subcapitata	>100 mg/L	96 hrs

**12.2. Persistence and degradability**

<i>Ingredient name:</i>	<i>Concentration</i>	<i>Duration of test</i>	<i>% Biodegradability</i>
<b>Xylene (mixture of isomers)</b>			Readily biodegradable
<b>n-Butyl Acetate Butyl ethanoate</b>		28 days	83
<b>2-butoxyethyl acetate; Butyl glycol acetate</b>	30 mg/L	28 days	77.3
<b>Acetone</b>	7.8 µg/L	28 days	90.9

**2K MS CRYSTAL CLEAR Anti-Scratch***12.3. Bioaccumulative potential*

<i>Ingredient name:</i>	<i>BCF</i>	<i>Log P<sub>ow</sub></i>	<i>Potential</i>
Xylene (mixture of isomers)	25.9	3.2	Low
n-Butyl Acetate Butyl ethanoate	No data available	1.78	Low
2-butoxyethyl acetate; Butyl glycol acetate	No data available	1.51	No data available
Acetone	3	-0.24	Not bioaccumulative

*12.4. Mobility in soil*

<i>Ingredient name:</i>	<i>K<sub>oc</sub></i>	<i>HLC</i> <i>(Henry's law constant)</i>	<i>Surface tension</i>
Xylene (mixture of isomers)	202	524.9 Pa.m <sup>3</sup> /mol	No data available
n-Butyl Acetate Butyl ethanoate	No data available	No data available	No data available
2-butoxyethyl acetate; Butyl glycol acetate	No data available	No data available	No data available
Acetone	No data available	2.929 Pa m <sup>3</sup> /mol	0.0237 N/m

*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.

<b>13. SECTION 13: Disposal considerations</b>
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*13.1. Waste treatment methods*

*Disposal methods* The generation of waste should be avoided or minimised wherever possible.



**2K MS CRYSTAL CLEAR Anti-Scratch**

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

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

**2K MS CRYSTAL CLEAR Anti-Scratch****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 <sub>0</sub>	-	Dose at which no individuals are expected to die
LD <sub>50</sub>	-	Lethal Dose 50
LC	-	Lethal Concentration
LC <sub>50</sub>	-	Lethal Concentration 50
EC <sub>50</sub>	-	Effective Concentration 50
Log P <sub>ow</sub>	-	Octanol-water partition coefficient
K <sub>oc</sub>	-	Partition coefficient of organic carbon

**Full Text of Physical Hazards**

H225 - Highly flammable liquid and vapour.

**Full Text of Health Hazards**

H315 - Causes skin irritation.

EUH066 - Repeated exposure may cause skin dryness or cracking.

**2K MS CRYSTAL CLEAR Anti-Scratch***Full Text of  
Environmental  
Hazards*

Not classified

*Full Text of  
CLP/GHS  
Classifications*

Flam. Liq. 2,	H225	Highly flammable liquid and vapour.	Category 2
Flam. Liq. 3	H226	FLAMMABLE LIQUIDS	Category 3
Acute Tox. 4	H312	ACUTE TOXICITY (dermal)	Category 4
Skin Irrit. 2	H315	SKIN CORROSION/IRRITATION	Category 2
Skin Sens. 1	H317	SKIN SENSITIZATION	Category 1
Eye Irrit. 2	H319	SERIOUS EYE IRRITATION	Category 2
Acute Tox. 4	H332	ACUTE TOXICITY (inhalation)	Category 4
STOT SE 3	H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects)	Category 3
Aquatic Acute 1	H400	Very toxic to aquatic life.	Category 1
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.	Category 1
Aquatic Chronic 2,	H411	Toxic to aquatic life with long lasting effects.	Category 2
EUH066		Repeated exposure may cause skin dryness or cracking.	
EUH208		Contains mixture of sterically composed sebacates. May produce an allergic reaction.	

**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.