

**1K SMART CLEARCOAT**

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: 03

Revision: 25.04.2016
(Previous revision 11.01.2016)

Print date: 25.04.2016

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

1.1 Product Identifier;

Product Name 1K SMART Clearcoat

Product Code: 0202

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* Clear topcoat

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. 2, H225

Health hazards Asp. Tox. 1, H304

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Acute Tox. 4, H312
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 STOT SE 3, H336
 Repr. 2, H361d
 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**

Danger

Hazard statements

H225 - Highly flammable liquid and vapour.
 H304 - May be fatal if swallowed and enters airways.
 H312 - Harmful in contact with skin.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 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.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 Store locked up.

Response

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P303+353+361 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+338+351 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

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

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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Hazardous Ingredients Not applicable

Supplemental label elements Not applicable

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. Not applicable

3.2. Other hazards **PBT:** This product is not identified as a PBT/vPvB substance.
Contains Benzotriazole Derivative Mixture. May produce an allergic reaction.

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>
01-2119471310-51	Toluene	≥25 - <50	108-88-3	203-625-9	601-021-00-3	Flam. Liq. 2: H225; Repr. 2: H361d; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336
01-2119475791-29	2-Methoxy-1-methylethyl acetate	≥10 - <25	108-65-6	203-603-9	607-195-00-7	Flam. Liq. 3, H226
01-2119457290-43	Methyl Ethyl Ketone	≥10 - <25	78-93-3	201-159-0	606-002-00-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066

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01-2119488216-32	Xylene (mixture of isomers)	≥ 2.5 - < 10	1330-20-7	215-535-7	601-022-00-9	Acute Tox. 4, H312+H332 Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 3, H412
	Benzotriazole Derivative Mixture	≤ 2.5				Skin Sens. 1, H317 Aquatic Chronic 2, H411

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. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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.

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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.

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.

<p>5. SECTION 5: Firefighting measures</p>

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

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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.

<p>6. SECTION 6: Accidental release measures</p>

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 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

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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.

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).

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<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>
Toluene	Sk	50	191	100	384
2-Methoxy-1-methylethyl acetate	Sk	50	274	100	548
Methyl Ethyl Ketone	Sk	200	600	300	899
Xylene (mixture of isomers)	Sk	50	220	100	441
Benzotriazole Derivative Mixture		No data available		No data available	

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>
Toluene	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	384 mg/kg	Non-applicable
	<i>Inhalation</i>	384 mg/m ³	384 mg/m ³	192 mg/m ³	192 mg/m ³
2-Methoxy-1-methylethyl acetate	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	153.5 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	275 mg/m ³	Non-applicable

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Methyl Ethyl Ketone	<i>Oral</i>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	1161 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	600 mg/m ³	Non-applicable
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
Benzotriazole Derivative Mixture	<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

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>
Toluene	<i>Oral</i>	Non-applicable	Non-applicable	8.13 mg/Kg	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	226 mg/Kg	Non-applicable
	<i>Inhalation</i>	226 mg/m ³	226 mg/m ³	56.5 mg/m ³	56.5 mg/m ³
2-Methoxy-1-methylethyl acetate	<i>Oral</i>	Non-applicable	Non-applicable	1.67 mg/kg	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	54.8 mg/kg	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	33 mg/m ³	Non-applicable
Methyl Ethyl Ketone	<i>Oral</i>	Non-applicable	Non-applicable	31 mg/Kg bw/day	Non-applicable
	<i>Dermal</i>	Non-applicable	Non-applicable	412 mg/Kg bw/day	Non-applicable
	<i>Inhalation</i>	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable

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Xylene (mixture of isomers)	<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 ³	174 mg/m ³	14.8 mg/m ³	Non-applicable
Benzotriazole Derivative Mixture	<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

PNEC

<i>Ingredient name:</i>	<i>Environmental sphere</i>	<i>PNEC value</i>
Toluene	<i>Fresh water</i>	0.68 mg/L
	<i>Marine water</i>	0.68 mg/L
	<i>Fresh water sediment</i>	16.39 mg/kg
	<i>Marine water sediment</i>	16.39 mg/kg
	<i>Sewage Treatment</i>	13.61 mg/L
	<i>Soil</i>	2.89 mg/kg
2-Methoxy-1-methylethyl acetate	<i>Fresh water</i>	0.635 mg/L
	<i>Marine water</i>	0.0635 mg/L
	<i>Fresh water sediment</i>	3.29 mg/kg
	<i>Marine water sediment</i>	0.329 mg/kg
	<i>Sewage Treatment</i>	100 mg/L
	<i>Soil</i>	0.29 mg/kg
Methyl Ethyl Ketone	<i>Fresh water</i>	55.8 mg/L
	<i>Marine water</i>	55.8 mg/L
	<i>Fresh water sediment</i>	284.7 mg/kg
	<i>Marine water sediment</i>	284.7 mg/kg
	<i>Sewage Treatment</i>	709 mg/L
	<i>Soil</i>	22.5 mg/kg

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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
Benzotriazole Derivative Mixture	<i>Fresh water</i>	No data available
	<i>Marine water</i>	No data available
	<i>Fresh water sediment</i>	No data available
	<i>Marine water sediment</i>	No data available
	<i>Sewage Treatment</i>	No data available
	<i>Soil</i>	No data available

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

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supplier/manufacturer 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

<i>Physical State</i>	Liquid
<i>Colour</i>	Clear
<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>	Not available
<i>Boiling range</i>	80°C
<i>Flash point</i>	-4°C
<i>Evaporation rate</i>	Not available
<i>Flammability (solid, gas)</i>	Not available
<i>Upper/lower Flammability or Explosive limits</i>	11.5 / 1.2
<i>Vapour pressure</i>	105 hPa
<i>Vapour density</i>	Not available
<i>Relative density</i>	0.905

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<i>Solubility(ies)</i>	Not available
<i>Partition coefficient n-octanol/water</i>	Not available
<i>Auto-ignition temperature</i>	315°C
<i>Decomposition temperature</i>	Not available
<i>Viscosity</i>	25 sec (ISO 3mm) @ 20°C
<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
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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>
Toluene	<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

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2-Methoxy-1-methylethyl acetate	<i>Oral – LD₅₀</i>	Rat	8532 mg/kg	
	<i>Dermal – LD₅₀</i>	Rat	>2000 mg/kg	
	<i>Inhalation – LC₅₀</i>	Rat	4345 ppm	6 hrs
Methyl Ethyl Ketone	<i>Oral – LD₅₀</i>	Rat	>2193 mg/kg	
	<i>Dermal – LD₅₀</i>	Rabbit	>5000 mg/kg	
	<i>Inhalation – LC₅₀</i>	Mouse	32000 mg/m ³	4 hrs
Xylene	<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
Benzotriazole Derivative Mixture	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.

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*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.

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>
Toluene	<i>LC₅₀</i>	Fish - Oncorhynchus mykiss (Rainbow Trout)	7.63 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean - Daphnia magna (Water flea)	8 mg/L	24 hrs
	<i>EC₅₀</i>	Algae – Chlorella vulgaris (Fresh water algae)	245 mg/L	24 hrs
2-Methoxy-1-methylethyl acetate	<i>LC₅₀</i>	Fish – Pimephales promelas	161 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean – Daphnia sp.	481 mg/L	48 hrs
	<i>EC₅₀</i>			
Methyl Ethyl Ketone	<i>LC₅₀</i>	Fish - Pimephales promelas (fathead minnow)	3,130 - 3,320 mg/L	96 hrs
	<i>EC₅₀</i>	Crustacean - Daphnia magna (Water flea)	7,060 mg/L	24 hrs
	<i>EC₅₀</i>	Algae	No data available	

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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
Benzotriazole Derivative Mixture	<i>LC</i> ₅₀	Fish -	No data available	
	<i>LC</i> ₅₀	Crustacean -	No data available	
	<i>EC</i> ₅₀	Algae –	No data available	

12.2. Persistence and degradability

<i>Ingredient name:</i>	<i>Concentration</i>	<i>Duration of test</i>	<i>% Biodegradability</i>
Toluene	100 mg/L	14 days	100
2-Methoxy-1-methylethyl acetate	785 mg/L	8 days	100
Methyl Ethyl Ketone	2 mg/L	28 days	98
Xylene			Readily biodegradable
Benzotriazole Derivative Mixture			No data available

12.3. Bioaccumulative potential

<i>Ingredient name:</i>	<i>BCF</i>	<i>Log P_{ow}</i>	<i>Potential</i>
Toluene	13	2.73	Low
2-Methoxy-1-methylethyl acetate	1	0.43	Low
Methyl Ethyl Ketone	0.64	0.61	Not bioaccumulative
Xylene	25.9	3.2	Low
Benzotriazole Derivative Mixture			No data available

**1K SMART CLEARCOAT***12.4. Mobility in soil*

<i>Ingredient name:</i>	<i>K_{oc}</i>	<i>HLC</i> (Henry's law constant)	<i>Surface tension</i>
Toluene	178	6.728E+2 Pa.m ³ /mol	27930 N/m (25 °C)
2-Methoxy-1-methylethyl acetate	No data available	No data available	No data available
Methyl Ethyl Ketone	30	5.765E+0 Pa.m ³ /mol	23960 N/m (25 °C)
Xylene (mixture of isomers)	202	524.9 Pa.m ³ /mol	No data available
Benzotriazole Derivative Mixture			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.

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

**1K SMART CLEARCOAT****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>	II	II	II	II
14.5.	<i>Environmental hazards</i>				
	<i>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			
	<i>Limited quantities</i>	5L		5L	

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.

**1K SMART CLEARCOAT****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.
RID	-	International carriage of dangerous goods by rail
ADN	-	European Agreement concerning the International carriage of Dangerous Goods by Inland Waterways.
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
LL ₅₀	-	Lethal Load 50
LC ₅₀	-	Lethal Concentration 50
EC ₅₀	-	Effective Concentration 50
EL ₅₀	-	Effective Load 50
Log P _{ow}	-	Octanol-water partition coefficient
K _{oc}	-	Partition coefficient of organic carbon
TTC	-	Threshold of Toxicological Concern.
TGK	-	Toxicity Threshold.

*Full Text of
Physical Hazards*

H225 – Highly flammable liquid and vapour.

*Full Text of
Health Hazards*

H304 – May be fatal if swallowed and enters airways.
 H312 - Harmful in contact with skin.
 H315 - Causes skin irritation.
 H319 – Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.
 H361d – Suspected of damaging the unborn child.
 H373 – May cause damage to organs through prolonged or repeated exposure.

*Full Text of
Environmental
Hazards*

Not classified

**1K SMART CLEARCOAT**

*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.
AcuteTox. 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.
Repr. 2	H361d	Suspected of damaging the unborn child.
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.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.
EUH066		Repeated exposure may cause skin dryness or cracking.

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.