

Product Arro One Coat Ceiling Paint  
 Revision date 18 May 2017  
 Revision 1



## Safety Data Sheet (SDS)

### Section 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

**Product name** Arro One Coat Ceiling Paint  
**Synonyms, Trade names** No information available.

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

**Identified uses** Paint or paint related material.  
**Uses advised against** Any other purpose.

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** FSW Coatings Ltd  
 Virginia  
 Co Cavan  
 Ireland  
 Tel: 353 49854 7209  
**Contact person** info@fsw.ie

#### 1.4 Emergency telephone number

**Emergency telephone** + 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (EC 1272/2008)**  
 Physical and chemical hazards Not classified  
 Human health Not classified  
 Environment Not classified

#### 2.2 Label elements

**Contains** Not applicable  
**Label in accordance with (EC) no. 1272/2008** No pictogram required  
**Signal word** No Signal Word  
**Hazard statements** No hazard statements required  
**Precautionary statements** No precautionary statements required

#### 2.3 Other hazards

This product is not classified as hazardous. The information in this datasheet is given for guidance only.

### Section 3: Composition/identification of ingredients

#### 3.1 Substance

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Reg. EU 1272/2008	%
Limestone	CAS-No.: 1317-65-3 EC No.: 215-279-6		10-30%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0002		1-10%
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	CAS-No.: 25265-77-4 EC No.: 246-771-9 REACH Reg No.: 01-2119441305-48-0002		0-1%
calcium carbonate	CAS-No.: 471-34-1 EC No.: 207-439-9 REACH Reg No.: 01-2119486795-18-0000		0-1%
2,2'-oxydiethanol	CAS-No.: 111-46-6 EC No.: 203-872-2 REACH Reg No.: 01-2119457857-21-0000	Acute Tox 4 - H302, STOT RE 2 - H373	0-1%
diiron trioxide	CAS-No.: 1309-37-1 EC No.: 215-168-2		0-1%
Quartz (SiO <sub>2</sub> )	CAS-No.: 14808-60-7 EC No.: 238-878-4	STOT RE 2 - H373	0-1%
ammonia, anhydrous	CAS-No.: 7664-41-7 EC No.: 231-635-3	Flam. Gas 2- H221, Skin Corr. 1B - H314, Acute Tox 3 - H331, Aquatic Acute 1 - H400	0-1%

The full text for all hazard statements are displayed in section 16.

**Composition comments**

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

**Section 4: First aid measures****4.1 Description of first aid measures****General information**

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

**Inhalation**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.

**Ingestion**

If this product is ingested, remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Never give anything by mouth to an unconscious person. Rinse mouth out and then drink plenty of water. Seek medical attention.

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing and shoes and wash before reuse. Wash exposed area with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation develops or persists.

**Eye contact**

Avoid contaminating unaffected eye. Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream water for at least 15 minutes. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****General information**

The product is not classified as hazardous. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Inhalation of mist or vapor may cause respiratory tract irritation.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

Prolonged contact may cause redness and/or tearing.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to the physician**

Treat symptomatically.

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**Section 5: Fire-fighting measures**


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**5.1 Extinguishing media**

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	None noted.

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

<b>Hazardous combustion products</b>	When heated, vapours/gases hazardous to health may be formed.
<b>Unusual fire &amp; explosion hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	In case of fire, toxic gases may be formed (COx, NOx). Avoid breathing fumes.

**5.3 Advice for firefighters**

<b>Special fire fighting procedures</b>	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
<b>Protective equipment for firefighters</b>	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.

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**Section 6: Accidental release measures**


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**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Wash hands after use.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Do not discharge into drains, water courses or onto the ground.
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**6.3 Methods and material for containment and cleaning up**

<b>Spill clean up methods</b>	Ventilate and evacuate the area. Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.
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**6.4 Reference to other sections**

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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**Section 7: Handling and storage**


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**7.1 Precautions for safe handling**

<b>Handling</b>	Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Do not use contact lenses. Keep away from heat, sparks and open flame. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Do not eat, drink or smoke when using the product.
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**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Store in tightly closed original container in a cool, dry and well-ventilated place. Keep upright, locked up and out of reach of children. Store in cool dry areas away from direct sunlight or sources of ignition.
<b>Storage class</b>	Unspecified storage.

**7.3 Specific end use(s)**

**Specific end use(s)**  
**Usage description**

The identified uses for this product are detailed in Section 1.  
Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Limestone	OEL		10 mg/m <sup>3</sup>			Total inhalable dust.
Limestone	OEL		4 mg/m <sup>3</sup>			Total respirable dust.
2,2'-oxydiethanol	OEL	23 ppm	100 mg/m <sup>3</sup>			
titanium dioxide	OEL		10 mg/m <sup>3</sup>			Total inhalable dust.
titanium dioxide	OEL		4 mg/m <sup>3</sup>			Respirable dust.
diiron trioxide	OEL		5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	Fume (as Fe.)
diiron trioxide	OEL		10 mg/m <sup>3</sup>			Total inhalable dust.
diiron trioxide	OEL		4 mg/m <sup>3</sup>			Respirable dust.
Quartz (SiO <sub>2</sub> )	OEL		0.1 mg/m <sup>3</sup>			Respirable dust.
ammonia, anhydrous	OEL	20 ppm	14 mg/m <sup>3</sup>	50 ppm	36 mg/m <sup>3</sup>	Anhydrous.

**Ingredient comments**

Ireland, Occupational Exposure Limits 2016.

**8.2 Exposure Controls****Protective equipment****Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory equipment**

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN 143 should be used, and suitable respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. ABEK (EN 14387). Consult manufacturer for specific advice.

Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist or other qualified professional if concentrations exceed the limits listed in Section 8.

**Hand protection**

Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Gloves must be inspected prior to use.

Suggested material: Nitrile rubber. Break through time: >480 minutes. Minimum layer thickness: 0.33 mm. Butyl rubber. Breakthrough time: >480 minutes. Minimum layer thickness: 0.6 mm. Consult manufacturer for specific advice.

**Eye protection**

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

**Other protection**

Wear appropriate clothing to prevent skin contact. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Hygiene measures**

Immediately take off any contaminated clothing and launder before re-use. Wash promptly if skin becomes contaminated. Wash hands after handling. Do not eat, drink, or smoke while using this product.

**Process conditions**

Ensure that eye flushing systems and safety showers are located close by in the work place.

**Section 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	White. Opaque.
<b>Odour</b>	Faint odour.
<b>Odour threshold - lower</b>	No information available.
<b>Odour threshold - upper</b>	No information available.
<b>pH-Value, Conc. Solution</b>	7.5 - 9.0.
<b>pH-Value, Diluted solution</b>	No information available.
<b>Melting point</b>	May start to solidify at temperatures below 2°C. This is based on data for the following ingredient: Water.
<b>Initial boiling point and boiling range</b>	42.00 °C
<b>Flash point</b>	Closed cup: Not applicable. (Product does not sustain combustion.)
<b>Evaporation rate</b>	No information available.
<b>Flammability state</b>	Non flammable.
<b>Flammability limit - lower(%)</b>	Not applicable.
<b>Flammability limit - upper(%)</b>	Not applicable.
<b>Vapour pressure</b>	Highest known value: 3.2 kPa (23.8 mmHg) at 20°C (water). Weighted average: 3.12 kPa (23.4 mmHg) at 20°C.
<b>Vapour density (air=1)</b>	Highest known value: 7.5 (Air=1); (isobutyric acid, monoester with 2,2, 4-trimethylpentan-1,3-diol.)
<b>Relative density</b>	1.55g/cm <sup>3</sup> @ 20.00 °C
<b>Bulk density</b>	No information available.
<b>Solubility</b>	Partially soluble in cold water.
<b>Decomposition temperature</b>	No information available.
<b>Partition coefficient; n-Octanol/Water</b>	No information available.
<b>Auto ignition temperature (°C)</b>	Not applicable.
<b>Viscosity</b>	Kinematic (40°C): >0.21 cm <sup>2</sup> /s.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

**9.2 Other information**

<b>Molecular weight</b>	No information available.
<b>Volatile organic compound</b>	8.00 g/litre
<b>Other information</b>	Volume solids: 30% +/- 1.0%.

**Section 10: Stability and reactivity****10.1 Reactivity**

<b>Reactivity</b>	Reaction with: strong oxidising substances and acids.
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**10.2 Chemical stability**

**Stability** Stable under normal temperature conditions and recommended use.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** None under normal processing.  
**Hazardous polymerisation** Unknown.  
**Polymerisation description** Unknown.

**10.4 Conditions to Avoid**

**Conditions to avoid** Protect from frost. Avoid exposure to high temperatures or direct sunlight.

**10.5 Incompatible materials**

**Materials to avoid** Strong oxidising agents. Strong acids. Do not mix with other chemicals unless listed on directions. Ammonia is incompatible or has potentially hazardous reactions with silver, acetaldehyde, acrolein, boron, halogens, perchlorate, chloric acid, chlorine monoxide, chlorites, nitrogen tetroxide, tin and sulphur.

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and nitrogen oxides.

**Section 11: Toxicological information****11.1 Information on toxicological effects**

**Toxicological information** No toxicological information for the overall finished product.

**Acute toxicity (Oral LD50)** No information available.  
**Acute toxicity (Dermal LD50)** No information available.  
**Acute toxicity (Inhalation LD50)** No information available.

**Serious eye damage/irritation** May cause temporary eye irritation.

**Skin corrosion/irritation** No information available.

**Respiratory sensitisation** No information available.  
**Skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Specific target organ toxicity - Single exposure:**  
**STOT - Single exposure** No information available.  
**Specific target organ toxicity - Repeated exposure:**  
**STOT - Repeated exposure** No information available.

**Inhalation** Inhalation of mist or vapor may cause respiratory tract irritation.  
**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.  
**Skin contact** Prolonged contact may cause redness, irritation and dry skin.  
**Eye contact** Prolonged contact may cause redness and/or tearing.  
**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product. The generation of waste should be avoided or minimised wherever possible. Avoid pouring into drains or waterways. Avoid contaminating the ground or water with waste. Where practical, waste or surplus material should be recovered and recycled.

**Routes of entry** No information available.  
**Target organs** No target organs specified.

**Aspiration hazards:** No information available.  
**Reproductive toxicity:** No information available.

Name	LD50 oral	LD50 dermal	LD50 inhalation
titanium dioxide	10000.00mg/kg Rat		
Kaolin, calcined	>2000.00mg/kg Rat		
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	6500.00mg/kg Rat	15200.00mg/kg Rabbit	

## Section 12: Ecological information

### 12.1 Toxicity

<b>Acute toxicity - Fish</b>	No information available.
<b>Acute toxicity - Aquatic invertebrates</b>	No information available.
<b>Acute toxicity - Aquatic plants</b>	No information available.
<b>Acute toxicity - Microorganisms</b>	No information available.
<b>Chronic toxicity - Fish</b>	No information available.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available.
<b>Chronic toxicity - Aquatic plants</b>	No information available.
<b>Chronic toxicity - Microorganisms</b>	No information available.
<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Eco toxicological information</b>	No ecological toxicity available on the overall finished product.

### 12.2 Persistence and degradability

<b>Degradability</b>	The degradability of the product has not been stated.
<b>Biological oxygen demand</b>	No information available.
<b>Chemical oxygen demand</b>	No information available.

### 12.3 Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Bioaccumulation factor</b>	No information available.
<b>Partition coefficient; n-Octanol/Water</b>	No information available.

### 12.4 Mobility in soil

<b>Mobility</b>	No information available.
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### 12.5 Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** The product does not contain any PBT or vPvB Substances.

### 12.6 Other adverse effects

<b>Other adverse effects</b>	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	LC50 96 Hours 17.60mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours >38.90mg/l Daphnia magna	
2-Methylisothiazol-3(2h)-one	LC50 96 Hours 6.00mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 1.68mg/l Daphnia magna	

1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one	LC50 96 Hours 1.60mg/l Onchorhynchus mykiss (Rainbow Trout)LC50 96 Hours 1.60mg/l Freshwater Fish	EC50 48 Hours 3.00mg/l Daphnia magnaEC50 48 Hours 2.94mg/l Daphnia magna	
Kaolin, calcined	LC50 96 Hours >100.00mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours >1.00mg/l Daphnia magna	EC50 72 Hours >100.00mg/l Scenedesmus Subspicatus
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	LC50 96 Hours >19.00mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 147.80mg/l Daphnia magna	

### Section 13: Disposal considerations

#### Waste management

When handling waste, consideration should be made to the safety precautions applying to handling of the product. The generation of waste should be avoided or minimised wherever possible. Avoid pouring into drains or waterways. Avoid contaminating the ground or water with waste. Where practical, waste or surplus material should be recovered and recycled.

#### 13.1 Waste treatment methods

##### Disposal methods

Dispose of waste and residues in accordance with local authority requirements. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14: Transport information

#### 14.1 UN number

UN no. (ADR) Not applicable.  
UN no. (IMDG) Not applicable.  
UN no. (IATA) Not applicable.

#### 14.2 UN proper shipping name

ADR proper shipping name Not applicable.  
IMDG proper shipping name Not applicable.  
IATA proper shipping name Not applicable.

#### 14.3 Transport hazard class(es)

ADR class Not applicable.  
IMDG class Not applicable.  
IATA class Not applicable.

Transport labels Not applicable

#### 14.4 Packing group

ADR/RID/ADN packing group Not applicable.  
IMDG packing group Not applicable.  
IATA packing group Not applicable.

#### 14.5 Environmental hazards

ADR No  
IMDG No  
IATA No

#### 14.6 Special precautions for user

EMS Not applicable.  
Emergency action code Not applicable.  
Hazard no. (ADR) Not applicable.  
Tunnel restriction code Not applicable.



**14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**

Not applicable.

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
<b>Approved code of practice</b>	2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).
<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out.

**Section 16: Other information**

<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a first issue.
<b>Revision date</b>	18 May 2017
<b>Revision</b>	1
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H317</b>	May cause an allergic skin reaction.
<b>H302</b>	Harmful if swallowed.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H318</b>	Causes serious eye damage.
<b>H400</b>	Very toxic to aquatic life.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H330</b>	Fatal if inhaled.
<b>H221</b>	Flammable gas.
<b>H331</b>	Toxic if inhaled.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.