

Safety Data Sheet

Astro IWC Paint

Revision 3 - 6th April 2021



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Astro IWC Paint
Product code : AFFPTIWC

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

Use of substance / mixture : An Air Drying Water Borne Flame Retardant and Anti Viral Coating for use on walls and ceilings

1.3. Details of the supplier of the safety data sheet

Company name : Astroflame (Fire Seals) Ltd.
Intumescent House
Unit 8
The Io Centre
Stephenson Road
Segensworth
Fareham
England
PO15 5RU
Tel : 01329 844 500
Fax : 01329 844 600
Email : sales@astroflame.com

1.4. Emergency telephone number


Emergency tel : 01329 844 500 (office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP : Aquatic Acute 1: H400; Aquatic Chronic 1: H410
Most important adverse effects: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements :
Hazard statements : H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
Hazard pictograms : GHS09: Environmental

Signal words : Warning
Precautionary statements : P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing spray.

2.2. Label elements (continued)

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective clothing, eye protection, face protection.

P301+P312: IF SWALLOWED: Call a doctor if you feel unwell.

P302+P350: IF ON SKIN: Gently 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.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ZINC BORATE - REACH registered number(s): 01-2119691658-19-0001

EINECS	CAS	PBT / WEL	CLP Classification	Percent
235-804-2	138265-88-0	-	Aquatic Acute 1: H400	1-10%

PROPANE DIOL - REACH registered number(s): 01-2119456809-23-0003

200-338-0	57-55-6	Substance with a Community workplace exposure limit.	-	1-10%
-----------	---------	--	---	-------

SILVER PHOSPHATE GLASS

608-534-1	308069-39-8	-	Eye Irrit. 2: H319; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	<1%
-----------	-------------	---	--	-----

ZINC OXIDE

-	1314-13-2	-	Aquatic Chronic 1: H410; Aquatic Acute 1: H400	<1%
---	-----------	---	--	-----

Non-classified ingredients:

FIXED BIOCIDAL METAL COMPOUNDS

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	-	-	-	1-10%

Contains : silver phosphate glass

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact	:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Do NOT use solvent or thinners
Eye contact	:	Bathe the eye with running water for 15 minutes.
Ingestion	:	Do not induce vomiting. Wash out mouth with water. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.
Inhalation	:	Move to fresh air in case of accidental inhalation of vapours. Remove casualty from exposure ensuring one's own safety whilst doing so. Keep the patient warm and at rest. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact	:	There may be mild irritation at the site of contact.
Eye contact	:	There may be irritation and redness.
Ingestion	:	No data available.
Inhalation	:	No data available.
Delayed / immediate effects	:	No data available.

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

Immediate / special treatment	:	In all cases of doubt, or when symptoms persist seek medical attention. eye washing equipment should be available
--------------------------------------	---	---

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media	:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
----------------------------	---	---

5.2. Special hazards arising from the substance or mixture

Exposure hazards	:	In combustion emits toxic fumes.
-------------------------	---	----------------------------------

5.3. Advice for fire-fighters

Advice for fire-fighters	:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
---------------------------------	---	--

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Refer to section 8 of SDS for personal protection details. Turn leaking containers leeward to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
-----------------------------	---	---

6.2. Environmental precautions

Environmental precautions : Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures : Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections : Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements : Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Avoid skin and eye contact Do not allow to enter drains or watercourses Always wash your hands before eating, smoking or using the toilet In case of insufficient ventilation wear suitable respiratory protection

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children Keep container tightly closed. store between 5 and 30oC in a dry well ventilated area

Suitable packaging : Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s) : No data available. the identified uses of this product are detailed in section 1

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ZINC BORATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA		15 min. STEL	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m3	-	-	-

PROPANE DIOL:

UK	150 ppm	-	-	-
----	---------	---	---	---

ZINC OXIDE:

UK	5 mg/m3	10 mg/m3	-	-
----	---------	----------	---	---

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures	:	Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place. Avoid inhalation of vapours Observe any occupational exposure limits for the product
Respiratory protection	:	In case of insufficient ventilation suitable respiratory equipment should be used If spraying respiratory protection will be required
Hand protection	:	Protective gloves. the instructions and information provided by the glove manufacturer on use storage maintenance and replacement must be followed
Eye protection	:	Safety glasses. manufactured and tested to EN 166and designed to protect against splashes
Skin protection	:	Impermeable protective clothing.
Environmental	:	Handle in accordance with good industrial hygiene and safety practices

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	:	Liquid
Colour	:	Various
Odour	:	Barely perceptible odour
Solubility in water	:	Miscible
Viscosity	:	Viscous
Kinematic viscosity	:	1-2 poise
Viscosity test method	:	Cone & plate @ 20 oC
Relative density	:	1.3-1.4
VOC g/l	:	30
pH	:	8.7

9.2. Other information

Other information	:	VOC Content:EU limit for this product (cat A/i) is 140 g/l
--------------------------	---	--

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity	:	Stable under recommended transport or storage conditions.
-------------------	---	---

10.2. Chemical stability

Chemical stability	:	Stable under normal conditions.
---------------------------	---	---------------------------------

10.3. Possibility of hazardous reactions

Hazardous reactions	:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
----------------------------	---	---

10.4. Conditions to avoid

Conditions to avoid	:	Heat.
----------------------------	---	-------

10.5. Incompatible materials

Materials to avoid : Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products : In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ZINC BORATE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	0.002	g/l
ORAL	RAT	LD50	3500	mg/kg

PROPANE DIOL

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>20,000	mg/kg
VAPOURS	RAT	1H LC50	317.4	mg/l

ZINC OXIDE

IPR	RAT	LD50	240	mg/kg
ORL	MUS	LD50	7950	mg/kg

Toxicity values : No data available.

Symptoms / routes of exposure

Skin contact : There may be mild irritation at the site of contact.
Eye contact : There may be irritation and redness.
Ingestion : No data available.
Inhalation : No data available.
Delayed / immediate effects : No data available.
Other information : Repeated or Prolonged contact with the product may lead to the removal of natural fats from the skin, resulting non allergic contact dermatitis and absorption through the skin. In all cases of doubt or where symptoms persist obtain medical attention

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

ZINC BORATE

Daphnia magna	96H LC50	76	mg/l
FISH	96H LC50	76	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	2.4	mg/l

PROPANE DIOL

ALGAE	96H ErC50	19000	mg/l
Ceriodaphnia dubia	48H EC50	18340	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	40613	mg/l

12.2. Persistence and degradability

Persistence and degradability : No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential : No data available.

12.4. Mobility in soil

Mobility : No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects : Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations : Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations : not determined

Waste code number : 08 01 12

Disposal of packaging : Drained and rigorously scraped out empty containers are controlled wastes and should be disposed of according with the regulations made under the Control of Pollution Act and Enviromental Protection Act

NB : The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class : This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations : This product is subject to classification under the VOC Product Regulations SI 2006 No 2773 The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to this product regulation(EC) No 1907/2006 of the European parliament and the council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and restriction of Chemicals (REACH) Regulation (EC) NO 1272/2008 of the European parliament and Council on 18 December 2008 on Classification, labelling, packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation(EC) No1907/2006 workplace Exposure Limits EH 40 .Chip for Everyone HSG (108) Enviromental protection(duty of Care) regulations and amendments

15.2. Chemical Safety Assessment

Chemical safety assessment : A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3 : H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Legal disclaimer : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

As part of our policy of ongoing improvements, we reserve the right to modify, alter or change product specifications without giving notice. Product illustrations are representations only. All information contained in this document is provided for guidance only, and as ASTROFLAME (FIRE SEALS) LTD has no control over the specific application or installation methods of the products, or of the prevailing site conditions, no warranties expressed or implied are intended to be given as to the actual performance of the products mentioned or referred to, and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given of products mentioned or referred to herein.

The above information to the best of our knowledge is true and accurate and based upon current test data and is supplied for your guidance only. Customers should satisfy themselves to the suitability of the product based on the products limitation of applications and that the product is fit for purpose for their intended use and no guarantee is given or implied since the conditions of actual use are beyond our control. ASTROFLAME (FIRE SEALS) LTD, disclaim any liability for loss, damage or other expense arising from the use of information, data or products mentioned or referred to and reserve the right to change any details or specifications without notice. If you are in any doubt as to the suitability of this product for your intended application please contact our technical team on 01329 844500 or email sales@astroflame.com and we will contact you.