

Insta-Bond - Black / White

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Regulation (EC) No. 453/2010

1. IDENTIFICATION OF SUBSTANCE / MIXTURE OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name: Insta-Bond Black, Insta-Bond White

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

Product use: Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: IMG Ltd.,
Unit M
Riverside Industrial Estate
Fazeley
Tamworth
B78 3RW

Telephone: 01827 283322

Fax: 01827 250143

Email (for SDS): sales@img-limited.co.uk

1.4 Emergency tel. no: 01827 283322 (Available from 8.30 – 17.00 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical hazards Not classified

Human Health Not classified

Environment Not classified

2.2 Label elements

Label according to EC Directives: 1272/2008/EC:

Signal word: None required.

Pictogram(s): None required.

Hazard Statements: None required.

Precautionary Statements: None required.

Supplemental Statements: EUH210 Safety data sheet available on request.

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Other hazards: Methanol may be produced if the product comes into contact with water. The product does not contain any vPvB or PBT substances.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components:

Chemical Name	CAS.No/ EC No./ Reg.No	Classification (1272/2008/EC)	Content
Trimethoxyvinylsilane	CAS: 2768-02-7 EC: 220-449-8 REACH: 01-2119513215-52-XXXX	Flam.Liq.3; H226 Acute Tox.4; H332	0.5-5%
3- (Trimethoxysilyl)propylamine	CAS: 13822-56-5 EC: 237-511-5 REACH: 01-2119510159-45-XXXX	Skin Irr.2; H315 Eye Dam.1; H318	1-<3%

Ingredients comment: also contains the following substances with a WEL (Section 8): Calcium Carbonate, Titanium Dioxide, Carbon Black.

See Section 16 for the full text of the H statements declared above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Eye contact: Immediately flush eyes with plenty of water. Check for and remove any contact lenses. Get medical attention should symptoms persist.

Inhalation: No undue effects in normal circumstances, if affected, remove from fresh air and seek medical advice.

Skin contact: Wipe off residual product carefully with a soft, dry cloth. Remove affected clothing immediately, wash skin thoroughly with plenty of soap and water. In case of irritation, seek medical attention.

Ingestion: Rinse mouth with thoroughly with water. Do not induce vomiting and give water to drink. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed: Irritation of the eyes and skin may occur. May be irritating to respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate extinguishing media for the surrounding area. Alcohol-resistant foam, carbon dioxide, powders, water.

Unsuitable extinguishing media: None known.

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5.2 Special hazards arising from the substance or mixture

Decomposition products may include: carbon monoxide, carbon dioxide, toxic gases.

5.3 Advice for fire-fighters

Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Refer to section 8 for SDS for personal protection details.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not allow to enter drains or watercourses. If the product contaminates lakes, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

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.

6.4 Reference to other sections

See section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure that there is sufficient ventilation of the area, avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area between 5°C and 25°C. Keep container tightly closed.

7.3 Specific end use(s)

Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	8hr TWA	15min STEL	Information	Reference
Methanol*	200 ppm 266 mg/m ³	250 ppm 333 mg/m ³	SK	EH40
Calcium Carbonate	10 mg/m ³ 4 mg/m ³	No data available	Inhalable dust Respirable dust	EH40

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Titanium Dioxide	10 mg/m ³ 4 mg/m ³	No data available	Inhalable dust Respirable dust	EH40
Carbon Black	3.5 mg/m ³	7 mg/m ³	-	EH40

*Methanol may be formed upon contact with water or humid air.

* SK denoted above means can be absorbed through skin.

DNEL

Application	Exposure route	Trimethoxyvinylsilane	3-(trimethoxysilyl)propylamine	Methanol	Titanium Dioxide
Consumer	Inhalation – Long term local effects			50 mg/m ³	
Consumer	Inhalation – Short term systematic effects	93.4 mg/m ³		50 mg/m ³	
Consumer	Inhalation – Long term systematic effects	1.04 mg/m ³	17 mg/m ³	50 mg/m ³	
Consumer	Dermal – Short term systematic effects	26.9 mg/kg/bw/day		8 mg/kg/bw/day	
Consumer	Dermal – Long term systematic effects	0.3 mg/kg/bw/day	5 mg/kg/bw/day	8 mg/kg/bw/day	
Consumer	Oral – Short term systematic effects			8 mg/kg/bw/day	
Consumer	Oral – Long term systematic effects	0.3 mg/kg/bw/day	5 mg/kg/bw/day	8 mg/kg/bw/day	700 mg/kg
Professionals/Employees	Inhalation – Short term local effects			260 mg/m ³	
Professionals/Employees	Inhalation – Long term local effects			260 mg/m ³	10 mg/m ³
Professionals/Employees	Inhalation – Short term systematic effects	4.9 mg/m ³		260 mg/m ³	
Professionals/Employees	Inhalation – Long term systematic effects	4.9 mg/m ³	58 mg/m ³	260 mg/m ³	
Professionals/Employees	Dermal – Short term systematic effects	0.69 mg/kg/bw/day		40 mg/kg/bw/day	
Professionals/Employees	Dermal – Long term systematic effects	0.69 mg/kg/bw/day	8.3 mg/kg/bw/day	40 mg/kg/bw/day	

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PNEC

Environment	Trimethoxyvinylsilane	3-(trimethoxysilyl) propylamine	Methanol	Titanium Dioxide
Fresh water	0.34 mg/l	0.33 mg/l	154 mg/l	0.127 mg/l
Marine water	0.034 mg/l	0.033 mg/l	15.4 mg/l	1 mg/l
Water-intermittent (sporadic) release	3.4 mg/l	3.3 mg/l	1540 mg/l	0.61 mg/l
Dry sediment – fresh water	0.27 mg/kg	1.2 mg/kg	570.4 mg/kg	1000 mg/kg
Dry sediment – marine water	0.12 mg/kg	0.12 mg/kg	57.04 mg/kg	100 mg/kg
Dry soil	0.046 mg/kg	0.045 mg/kg	23.5 mg/kg	100 mg/kg

8.2 Exposure controls

Engineering measures: Methanol may be formed upon contact with water or humid air; provide adequate ventilation to control exposure.

Personal Protective Equipment

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time \geq 480 min. Gloves must be replaced after 8 hours of wear.

Eye protection: Tightly fitting safety goggles or glasses conforming to European standard EN 166.

Skin protection: Protective clothing.

Respiratory protection: Use respiratory protection suitable for organic vapours/dust if exposed to fumes/particulates above the WELs.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour:	Coloured paste.
Odour:	Characteristic, mild.
Odour threshold:	No data available.
Flammability:	No data available.
Flash point:	No data available.
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Explosive properties:	No data available.
Thermal decomposition:	No data available.
Auto-ignition temperature:	No data available.
Oxidising properties:	No data available.
Solubility in water:	Insoluble.
Solubility in other solvents:	No data available.
pH:	No data available.
Melting point / range:	No data available.

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Boiling point / range:	No data available.
Relative Density:	1.4-1.6
Vapour pressure:	No data available.
Vapour density:	No data available.
Partition coefficient: n-octanol / water:	No data available.
Viscosity (kinematic):	> 7mm ² /s @ 40°C.
Evaporation rate:	No data available.

9.2 Other information No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under recommended transport and storage conditions.
10.2 Chemical stability	Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Extreme heat. Contamination with water.
10.5 Incompatible materials	Keep away from the following materials; oxidising agents, strong acids.
10.6 Hazardous decomposition products	May release methanol on contact with water.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity: Inhalation ATE, calculated: >20mg/l/4h

Chemical Name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Trimethoxyvinylsilane	7120 mg/kg (Rat)	16.8 mg/l 4h (Rat)	3540 mg/kg (Rabbit)
3-(trimethoxysilyl) propylamine	>2000 mg/kg (Rat)	No data available	>10000 mg/kg (Rabbit)
Methanol	ATE 300 mg/kg (Man)	85 mg/l 4h (Rat)	17100 mg/kg (Rabbit)
Calcium Carbonate	>2000 mg/kg (Rat)	>3 mg/l 4h (Rat)	>2000 mg/kg (Rat)
Titanium Dioxide	>5000 mg/kg (Rat)	>6.8 mg/l 4h (Rat)	>2000 mg/kg (Rabbit)
Carbon Black	>2000 mg/kg (Rat)	No data available	>3000 mg/kg (Rabbit)

Symptoms / routes of exposure

Skin corrosion / irritation:	Prolonged or repeated contact may cause irritation.
Serious eye damage / irritation:	May cause eye irritation.
Respiratory or skin sensitisation:	Not expected to cause sensitisation.
Repeated dose toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	Not mutagenic.
Toxicity for reproduction:	Not expected to impair fertility.
Specific target organ toxicity (STOT):	Inhalation of vapours may cause respiratory irritation.
Further information:	The product as a whole is unlikely to cause any significant adverse effects, particularly when the advice in Sections 7 and 8 are followed.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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Chemical Name	Species	Test	Value
Trimethoxyvinylsilane	Daphnia	48h EC50	168.7 mg/l
	Fish (Rainbow trout)	96h LC50	191 mg/l
	Aquatic plants	EC50/LC50	>100 mg/l
3-(trimethoxysilyl) propylamine	Daphnia	48h EC50	331 mg/l
	Fish	96h LC50	>934 mg/l
	Aquatic plants	EC50/LC50	>1000 mg/l
Methanol	Daphnia	48h EC50	>10000 mg/l
	Fish	96h LC50	15400 mg/l
	Aquatic plants	-	No data available
Calcium Carbonate	Daphnia	EC50/LC50	>100 mg/l
	Fish	EC50/LC50	>100 mg/l
	Aquatic plants	EC50/LC50	>14 mg/l
Titanium Dioxide	Daphnia	EC50/LC50	>100 mg/l
	Fish	EC50/LC50	>100 mg/l
	Aquatic plants	EC50/LC50	16 mg/l
Carbon Black	Daphnia	EC50/LC50	>1000 mg/l
	Fish	EC50/LC50	>5600 mg/l
	Aquatic plants	EC50/LC50	>10000 mg/l

12.2 Persistence and degradability

Partially biodegradable; inorganic components such as Calcium Carbonate are not biodegradable.

12.3 Bioaccumulative potential

Low bioaccumulation potential.

12.4 Mobility in soil

Insoluble in water.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations. Do not allow to enter drains or watercourses. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

14. TRANSPORT INFORMATION

14.1 UN number	ADR/RID/AND; IMDG; ICAO	Not regulated.
14.2 UN Proper shipping name	Not applicable	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	Not applicable
	ADR/RID/ADN Class	Not applicable
	ADR Label No.	Not applicable
	IMDG Class	Not applicable
	ICAO Class/Division	Not applicable
	ICAO Subsidiary Risk	Not applicable

Transport labels

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	ADR/RID/IDMG	Not applicable
	IATA	Not applicable
14.4 Packing group	ADR/RID/AND; IMDG; ICAO	Not applicable
14.5 Environmental hazards	No	
14.6 Special precautions for user	Not applicable	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	Not applicable.	

15. REGULATORY INFORMATION

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (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. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical safety assessments / reports are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Full text of H-statements referred to under sections 2 and 3

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage
H331	Harmful if inhaled

Abbreviations and acronyms

CAS:	Chemical Abstract Service (division of the American Chemical Society) – Section 3.
STOT	Single Target Organ Toxicity – Section 11.
TWA	Time Weighted Average – Section 8.
STEL	Short Term Exposure Limit – Section 8.
DNEL	Derived No Effect Level – Section 8.
PNEL	Predicted No Effect Level – Section 8.
EC50	Effective Concentration, 50 percent – Section 12.
LD50	Lethal Dose, 50 percent – Section 11.



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- LC50 Lethal Concentration, 50 percent – Section 11.
- PBT: Persistent, Bioaccumulative, Toxic – Section 12.
- VPvB: very Persistent and very Bioaccumulative – Section 12.

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

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