

SAFETY DATA SHEET



ENVIROGRAF®

HS141-07-2022

Product Number: 141

Firobond Ultra Adhesive (FUA)

Description:

Firobond Ultra Adhesive (FUA) is a fire-retardant, high-performance laminating adhesive, specially developed for the bonding of mineral wool insulation to inorganic board materials, including magnesium oxide/cement boards, and laminated boards. All types of wood joists and wood rebated products MDF chipboard, plywood etc

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- Appendix 11 (FUA Adhesive)

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET
APPENDIX 11
Firobond Ultra Adhesive (FUA)

Issue July 2022

SECTION 1: IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product identifier

Trade name: Firobond Ultra Adhesive (FUA)
Other names: Product 141

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

Use of the Substance/Mixture: Coating for consumer applications, professional applications and Industrial use

1.3 Details of the supplier of the safety data sheet

Company: Envirograf
Address: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
Telephone: 01304 842555
Fax: 01304 842666
Email: sales@envirograf.com

1.4 Emergency telephone number

Emergency telephone number: 01304 842555 (Monday to Friday 8:30 – 17:30)

This safety datasheet complies with the requirements of Regulation (EC) No. 830/2015, (EC) No 1272/2008 and UK REACH

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

2.2 Label elements



Warning

Labelling (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Additional Labelling

Hazard statements (CLP) H317 May cause an allergic skin reaction.

EUH phases EUH208 (contains 5-chloro-2methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2H)-one.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Components of substances within concentration limits of Annex II to Regulation (EC) No 1907/2006

Chemical characterization: Aqueous (emulsion) polymer system

Contains Biocidal ingredients:

Substance name	CAS number	Weight % content (or range)	H-Codes
2-methyl isothiazol-3(2H)-one	2682-20-4	<0.0057%	H301/ H330/ H314/ H318/ H317/ H400
Pyrrithione Zinc	13463-41-7	<0.0057%	H301 / H330 / H318 / H400 / H 410
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.0057%	H330 / H318 / H315 / H317
5-chloro-2-methyl-4-isothiazolin-3-one	26530-03-0	<0.0057%	H311 / H330 / H314 / H317 / H400 / H410 / H318

Section 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice:	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance.
If inhaled:	Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of skin contact:	Wash off immediately with soap and plenty of water. Remove contaminated clothing. If irritation develops, get medical attention. Wash contaminated clothing before reuse.
In case of eye contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
If swallowed:	If accidentally swallowed obtain immediate medical attention. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Repeated or prolonged exposure may cause irritation of eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available, treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, powder, and water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: The pressure in sealed containers can increase under the influence of heat.

5.3 Advice for firefighters

Special protective equipment for firefighters: Use personal protective equipment. Chemical protection suit/ gloves/ boots and self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions: Do not dispose of into surface water or sanitary sewer systems. The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Prevent further leakage or spillage if safe to do so.
Large spills should be collected mechanically (remove by pumping) for disposal.
Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).
Pick up and transfer to properly labelled containers.

Clean contaminated floors and objects thoroughly while observing environmental regulations
Dispose of in accordance with local regulations.

6.4 Reference to other sections

For disposal considerations see section 13. For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: Wear personal protective equipment.
For personal protection see section 8

Avoid inhalation, ingestion and contact with skin and eyes.
Do not use in areas without adequate ventilation.
Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures: Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage

Requirements for storage areas and containers: Store in original container.
Keep in properly labelled containers.
Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight.
Do not freeze.

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): Consult the technical guidelines for the use of this.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters, below limit for consideration.

8.2 Exposure controls

Personal protection equipment

Eye protection:	Safety glasses with side-shields conforming to EN166
Hand protection:	Hand protection Material: Nitrile rubber Break through time: 480 min Glove thickness: 0.1 - 0.4 mm
Remarks	Protective gloves complying with EN 374. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection:	Not required under normal use Skin should be washed after contact. Remove and wash contaminated clothing before re-use
Respiratory protection:	Not required under normal use. Ensure adequate ventilation.
Protective measures:	Ensure that eye flushing systems and safety showers are located close to the working place.
Engineering measures:	Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Ensure adequate ventilation, especially in confined areas.
Environmental exposure controls:	General advice: The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	High viscosity gel / paste.
Colour:	White
Odour:	Slight
Odour threshold:	Not determined
pH:	7.0 to 8.5
Melting point/ freezing point:	Not applicable
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	The product is not flammable.
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Vapour pressure:	Not determined
Relative vapour density:	Not determined
Bulk density:	1.42 to 1.46g/cm ³

Solubility (ies)

Water solubility: Miscible

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Partition coefficient: N-octanol/water: not determined
Auto-ignition temperature: Not applicable
Explosive properties: Not applicable
Oxidizing properties: Not applicable

9.2 Other information

No further information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: None known.

10.4 Conditions to avoid

Conditions to avoid: Extremes of temperature and direct sunlight. In particular frost and freezing conditions.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Remarks: No data is available on the product itself.

Information given is based on data on the components.

Remarks: Contains no substances with workplace exposure limits (WELs, EH40/2005), refer to section 8.1 "control parameters"

Remarks: toxicology data related to single components not the final product itself

13463-41-7 Pyrithione zinc		
Sensitisation	OECD 429 (LLNA)	(mouse) not sensitising - S 2971
2682-20-4 2-methylisothiazol-3(2H)-one		
Sensitisation	OECD 406 (MKA)	(Guinea pig) sensitising - S 131
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Sensitisation	OECD 406 (MKA)	(Guinea pig) sensitising - S 2220
	OECD 429 (LLNA)	(mouse) sensitising - S 523

SECTION 12: ECOLOGICAL INFORMATION

Remarks: No data is available on the product itself.

Remarks: Ecological information data related to single components not the final product itself

12.1 Toxicity

Aquatic toxicity:	
13463-41-7 Pyrethione zinc	
EC ₅₀ / 72 h	0.051 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 3023
EC ₅₀ / 48 h	0.051 mg/l (Daphnia) (OECD 202) S 3024
LC ₅₀ / 96 h	0.0104 mg/l (Brachydanio rerio) (OECD 203) S 3026
NOEC / 28 d	0.00125 mg/l (Brachydanio rerio) (OECD 215) S 3027
NOEC / 72 h	0.0149 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 3023
NOEC / 96 h	0.00046 mg/l (Skeletonema costatum) (OECD 201) literature
2682-20-4 2-methylisothiazol-3(2H)-one	
EC ₅₀ / 72 h	0.157 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 128
EC ₅₀ / 48 h	1.68 mg/l (Daphnia) (OECD 202) S 126
LC ₅₀ / 96 h	6 mg/l (rainbow trout) (OECD 203) S 27
NOEC / 21 d	0.55 mg/l (Daphnia) (OECD 211) S 792
NOEC / 28 d	2.38 mg/l (fathead minnow) (OECD 210) S 794
NOEC / 72 h	0.03 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 128
2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC ₁₀ / 72 h	0.04 mg/l (Selenastrum capricornutum) (OECD 201) S 2238
EC ₅₀ / 72 h	0.11 mg/l (Selenastrum capricornutum) (OECD 201) S 2238
EC ₅₀ / 48 h	3.27 mg/l (Daphnia) (OECD 202) S 2240
LC ₅₀ / 96 h	1.6 mg/l (rainbow trout) (OECD 203) S 2746
NOEC / 21 d	1.2 mg/l (Daphnia) (OECD 211) S 803
NOEC / 28 d	0.21 mg/l (rainbow trout) (OECD 215) S 805

12.2 Persistence and degradability

Rapid degradability of organic substances:	
2682-20-4 2-methylisothiazol-3(2H)-one	
OECD 307 Aerobic and Anaerobic Transformation Soil	<0.08 d (half-life) rapidly degradable (< 16 d) - S 1110 1.28-2.1 d (half-life)
OECD 308 Simulation Biodegradation Aqu Sed System	rapidly degradable (< 16d) - S 842 4.1 d (half-life) rapidly biodegradable (< 16d) - S 646
OECD 309 Simulation Biodegradation - Surface Water	
13463-41-7 Pyrethione zinc	
OECD 308 Simulation Biodegradation Aqu Sed System	0.5 d (half-life) S 3418

Biodegradability: Remarks: Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

Physico-chemical removability: 98 %

Method: OECD Test Guideline 302

Remarks: The product can be eliminated from water by abiotic processes, e.g., adsorption on activated sludge.

12.3 Bioaccumulative potential

BCF / LogKow:	
13463-41-7 Pyrithione zinc	
OECD 107 LogKow (Shake Flask Method)	1.21 (n-octanol/water) S 2781
2682-20-4 2-methylisothiazol-3(2H)-one	
Bioconcentration factor BCF	3.16 (calculated) Literature
OECD 117 Log Kow Partition Coefficient	≤0.32 (n-octanol/water) S 325
2634-33-5 1,2-benzisothiazol-3(2H)-one	
OECD 305 Bioconcentration factor	6.95 BCF (Fish) S 2243
OECD 117 Log Kow Partition Coefficient	0.7 (n-octanol/water) S 324

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain substances that meet the PBT-criteria of REACH, annex XIII.

This mixture does not contain substances that meet the vPvB-criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

Contains no components determined to be endocrine disrupting

12.7 Other adverse effects

None available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: In accordance with local and national regulations.

The product should not be allowed to enter drains, watercourses or the soil.

Waste water from subsequent processing should be given appropriate treatment in line with local regulations.

Contaminated packaging: In accordance with local and national regulations

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not dangerous goods

14.2 UN proper shipping name

Not dangerous goods

14.3 Transport hazard class(es)

Not dangerous goods

14.4 Packing group

Not dangerous goods

14.5 Environmental hazards

Not dangerous goods

14.6 Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks: Not applicable

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances : Not applicable

15.2 Chemical safety assessment

Not applicable

SECTION 16: OTHER INFORMATION

Indication of changes	:
Abbreviations and acronyms	:
EC	European Commission
GLP	Good Laboratory Practice
LC50	The amount of a substance suspended in the air required to kills 50% of a test animal during a predetermined observation period
LLNA	Local lymph node assay
NOEC	No observed effect concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and. Toxic chemicals
vPvB	very Persistent and very Bio-accumulative
WELs	Workplace exposure limits
WGK	German Water Endangerment Class
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
Key literature references and sources for data	: Regulation (EC) No. 1272/2008. Regulation (EC) No. 1907/2006 Regulation (EC) No 1005/2009 Regulation (EC) No 850/2004 Workplace exposure limit EH40/2005 Regulation (EU) 2016/425 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).
Tests referenced	OECD 117 - Partition Coefficient (n-octanol/water), HPLC Method OECD 201 - Freshwater Alga and Cyanobacteria, Growth Inhibition Test

	<p>OECD 202 - Daphnia sp. Acute Immobilisation Test OECD 203 - Fish, Acute Toxicity Test OECD 210 - Fish, Early-life Stage Toxicity Test OECD 211 - Daphnia magna Reproduction Test OECD 215 - Fish, Juvenile Growth Test OECD 305 - Bioconcentration: Flow-through Fish Test OECD 307 - Aerobic and Anaerobic Transformation in Soil OECD 308 - Aerobic and Anaerobic Transformation in Aquatic Sediment Systems OECD 309 - Aerobic Mineralisation in Surface Water – Simulation Biodegradation Test OECD 406 - Skin Sensitisation OECD 429 - Skin Sensitisation LLNA</p>
<p>Relevant H-statements (number and full text) H330 Acute Tox. 2, H318 Eye Dam. 1, H400 Aquatic Acute 1, H411 Aquatic Chronic 2, H302 Acute toxicity oral, H315 Skin corrosion/irritation, H317 Sensitization Skin, H301 Acute toxicity oral, H314 Skin corrosion/irritation, H317 Sensitization Skin, H319 Serious eye damage/eye irritation, H410 Hazardous to the aquatic environment long-term hazard.</p>	

**RECOMMENDED USE
 FURTHER INFORMATION**

Adhesive for use with fire retardant/ resistant assemblies.
 Consult technical data sheet.

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