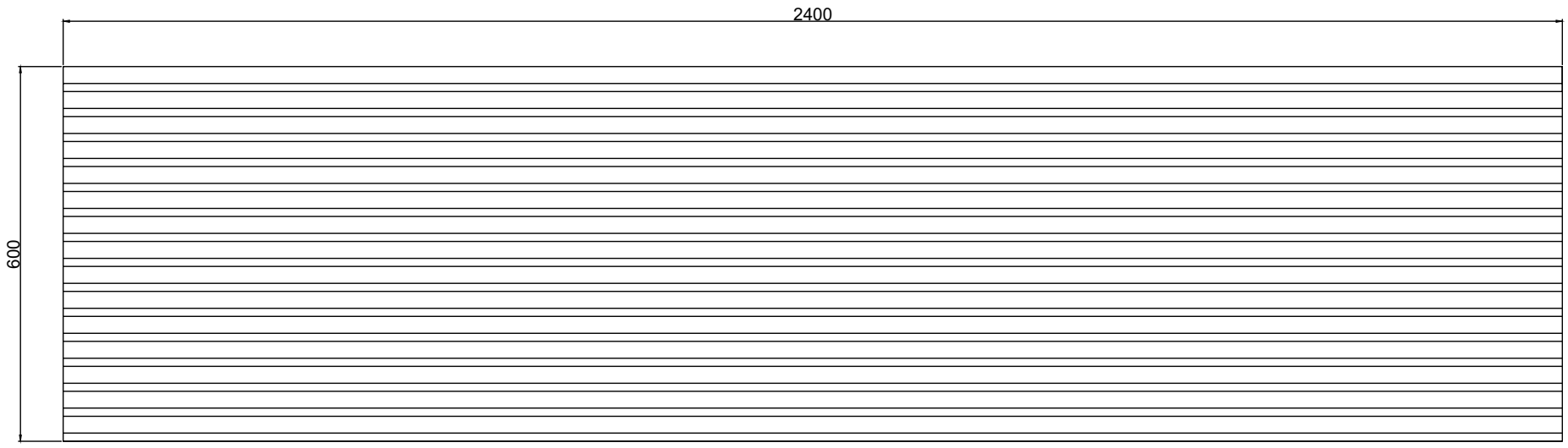
SLATWALL PANELS

Data Sheet

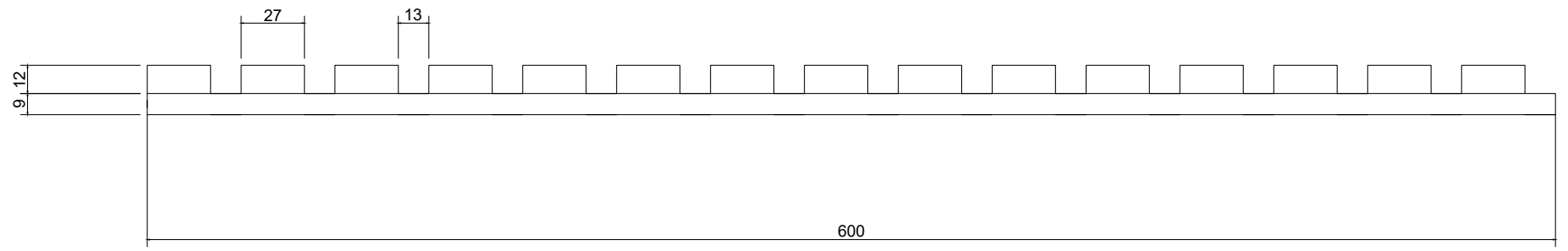
NATUREWALL

SLATWALL PANELS



SLATWALL PANEL - PLAN

Full panel dimensions: 2400mm (H) x 600mm (W) x 21mm (D) OR 3000mm (H) x 600mm (W) x 21mm (D) Scale: 1:10 @A3



SLATWALL PANEL - SECTION

Full panel dimensions: 2400mm (H) x 600mm (W) x 21mm (D) OR 3000mm (H) x 600mm (W) x 21mm (D) Scale: 1:10 @A3
Scale: 1:2 @A3

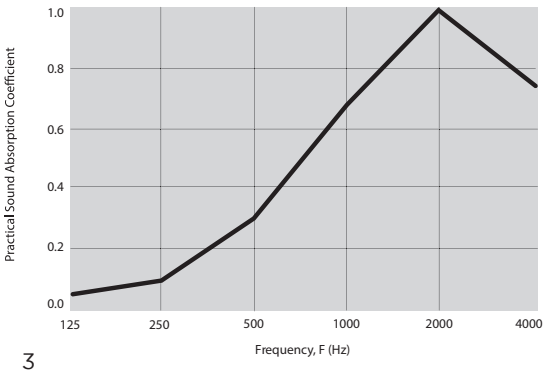
ACOUSTIC PROPERTIES

Measurement of Sound Absorption Coefficient for SlatWall Acoustic Panels:

Laboratory measurements of sound absorption coefficient were carried out in a reverberation room according to the test method of EN ISO 354:2003.

Installation
The panels were mounted directly to the wall.

Absorption
Class D, according to EN ISO 11654: 1997.



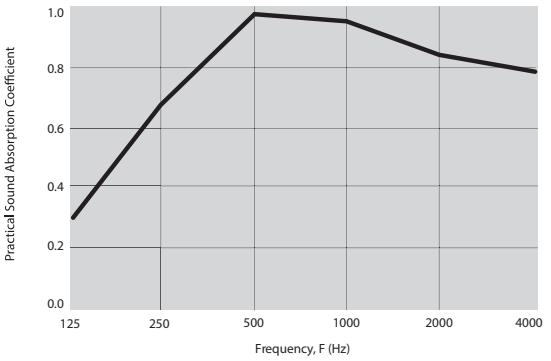
A 20mm panel, fixed directly to the wall, achieves an absorption coefficient of 0.35 (MH).

Measurement of Sound Absorption Coefficient for SlatWall Acoustic Panels, suspended 65mm, with 45mm Mineral Wool:

Laboratory measurements of sound absorption coefficient were carried out in a reverberation room according to the test method of EN ISO 354:2003.

Installation
The panels were supported by 45 x 45mm laths with 600mm centre to centre distance, with mineral wool between the laths.

Absorption
Class A, according to EN ISO 11654: 1997.



A 20mm panel, fixed ontop of 45mm of mineral wool achieves an absorption coefficient of 0.9 (MH).

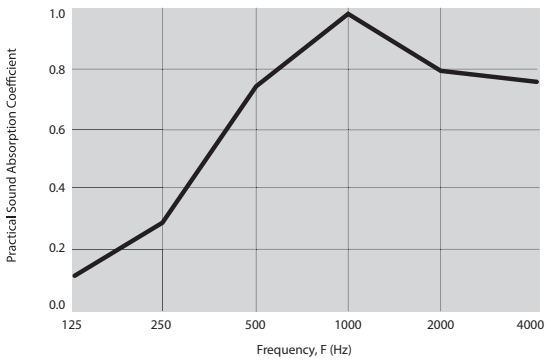
Mineral Wool
45mm ISOVER 37 Basic batts (density 15 kg/m3).

Measurement of Sound Absorption Coefficient for SlatWall Acoustic Panels, suspended 65mm:

Laboratory measurements of sound absorption coefficient were carried out in a reverberation room according to the test method of EN ISO 354:2003.

Installation
The panels were supported by45 x 45mm laths with 600mm centre to centre distance, with nothing between the laths.

Absorption
Class C, according to EN ISO 11654: 1997.



A 20mm panel, fixed over a 45mm air pocket, achieves an absorption coefficient of 0.60 (MH).

MDF SLATS AND VENEER

PROPERTIES	TEST METHOD	UNITS	THICKNESS (MM)					
			4 - 5	>5 - 7	>7 - 10	>10 - 13	>13 - 20	>20 - 31
DENSITY (*)	EN 232	kg/m3	835/825	820/800	770/740	735/720	720/675	675/655
INTERNAL BOND	EN 319	N/mm2	0.90	0.85	0.75	0.65	0.55	0.55
BENDING STRENGTH	EN 310	N/mm2	23	23	23	22	20	18
MODULUS OF ELASTICITY	EN 310	N/mm2	--	2700	2700	2500	2200	2100
THICKNESS SWELLING 24H	EN 317	%	35	30	17	15	12	10
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0.4	0.4	0.4	0.4	0.4	0.3
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	10	10	6	6	6	5
SURFACE SOUNDNESS	EN 311	N/mm2	1.2	1.2	1.2	1.2	1.2	1.2
MOISTURE CFONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3
GRIT CONTENT	ISO 3340	% Weight	≤0,05	≤0,05	≤0,05	≤0,05	≤0,05	≤0,05
FORMALDEHYDE CONTENT	EN ISO 12460-5	mg/100g	≤8	≤8	≤8	≤8	≤8	≤8
REACTION TO FIRE TABLE EN 13986:2004+A1:2015	EN 13501-1	Class	E(**)	E(**)	E(**)	D-s2,d0(***)	D-s2,d0(***)	D-s2,d0(***)
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)	EN 13984:2004+A1:2015	α	0.10	0.10	0.10	0.10	0.10	0.10
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)	EN 13984:2004+A1:2015	α	0.20	0.20	0.20	0.20	0.20	0.20
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.15	0.15	0.13	0.13	0.12	0.12
AIRBORNE SOUND INSULATIO (SURFACE MASS) (R)	EN 13984:2004+A1:2015	db	NPD	NPD	22 / 24	24 / 26	26 / 28	29 / 30
WATER VAPOUR PERMEABILITY DRY CUP	EN 13984:2004+A1:2015	μ	31	30	28	27	25	24
WATER VAPOUR PERMEABILITY WET CUP	EN 13984:2004+A1:2015	μ	21	20	18	17	16	15
BIOLOGICAL DURABILITY USE	EN 13984:2004+A1:2015	Class of use	1	1	1	1	1	1
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13984:2004+A1:2015	%	<5	<5	<5	<5	<5	<5

MDF SLATS AND VENEER

TOLERANCE ON NOMINAL DIMENSIONS								
PROPERTIES	**TEST METHOD**	**UNITS**	**THICKNESS (MM)**					
			4 - 5	**>5 - 7**	**>7 - 10**	**>10 - 13**	**>13 - 20**	**>20 - 31**
THICKNESS	EN 234-1	mm	+0.1/-0.7	+0.1/-0.7	+0.1/-0.5	+0.1/-0.5	+0.1/-0.5	+0.1/-0.5
LENGTH/WIDTH	EN 234-1	mm	+0/-5	+0/-5	+0/-3	+0/-3	+0/-3	+0/-3

(*) VALUES TO BE CONSIDERED AS A ROUGH GUIDE ONLY.

The thickness of the veneered board is understood as the thickness of the baseboard plus one millimetre (theoretical thickness of the veneer).

(**) Commission Decision 2007/348/EC.

(***)Mounted without an air gap behind the FIBRANATUR.

Mounted with a closed air gap not more than 22 mm behind the FIBRANATUR classification D-s2,d2.

Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

(****) Mounted without an air gap behind the FIBRANATUR, or with a closed air gap behind the FIBRANATUR for thicknesses equal or greater than 16mm orwith an open air gap behind the FIBRANATUR for thicknesses equal or greater than 19 mm.

Mounted with a closed air gap not more than 22 mm behind the FIBRANATUR classification D-s2,d2 in thicknesses between 11 mm and 19 mm. CommissionDecision 2007/348/EC.

These physical-mechanical values improve/comply with those established by EN 622-5:2009 European Standard, Table 3. Requirements for general purposeboards for use in dry conditions (type MDF).

Non dangerous product. Adequate ergonomic techniques and IPEs must be used when handling. Dust generated in cutting, sanding, drawmilling andother processes must be extracted from the working environment with the usual procedures in the wood industry as industrial vacuum systems andIPEs use must be observed according to law.

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

1.1. Product identifier

Product Name: DURA-PUR UH 6334V MaxiPURe
Product Code(s): YUH-6334V-E
Pure substance/mixture: Mixture

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

Recommended Use: Adhesives, For industrial use only
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

For further information, please contact
E-mail address: RegulatoryEU@ifscos.com
Emergency Telephone: DURAL GmbH +49-(0)7243-726 70 (8 am - 6 pm – CET/CEST)
Emergency Telephone - §45 - (EC)1272/2008 Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]
EUH208 - Contains Benzene, 1,1-methylenebis[isocyanato- May produce an allergic reaction.
EUH210 - Safety data sheet available on request

2.3. Other hazards

Contact with product at elevated temperatures can result in thermal burns. Avoid breathing vapors or fumes from hot material. May be harmful if inhaled. May cause irritation to mucous membranes and respiratory tract.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

CHEMICAL NAME	WEIGHT-%	REACH REGISTRATION NUMBER	EC NO (EU INDEX NO)	CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]	SPECIFIC CONCENTRATION LIMIT (SCL)	M-FACTOR	M-FACTOR (LONG-TERM)
Benzene, 1,1-methylenebis [isocyanato-26447-40-5	0.05 - 0.1	No data available	(615-005-00-9) (615-034-00-7)247-714-0	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373) Aquatic Chronic 4 (H413)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50 - 4 HOUR - DUST/MIST - MG/L	INHALATION LC50 - 4 HOUR - VAPOR - MG/L	INHALATION LC50 - 4 HOUR - GAS - PPM
Benzene, 1,1-methylenebis [isocyanato-26447-40-5	10000	10000	0.49	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Contact with molten substance may cause severe burns to skin and eyes. Burns caused by molten material must be treated clinically.

Inhalation: Remove to fresh air.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Take off contaminated clothing and wash before reuse. After contact with molten product, cool skin area rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.

Ingestion: Clean mouth with water and drink afterwards plenty of water.

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

Symptoms: May cause skin, eye, and respiratory tract irritation.

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

Note to physicians: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Prevent fire extinguishing water from contaminating surface water or the ground water system. Dried product is capable of burning. Sealed containers may rupture when heated. Do not allow run-off from fire-fighting to enter drains or water courses. The product causes irritation of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion: Products Carbon oxides. Nitrogen oxides (NOx). Isocyanates. Hydrogen cyanide.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation.
For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Where possible allow molten material to solidify naturally. Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Use personal protection equipment. Avoid breathing vapors or mists. Wash thoroughly after handling. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep/store only in original container. Protect from moisture.

7.3. Specific end use(s)

Specific use(s): Adhesives.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

CHEMICAL NAME	EUROPEAN UNION	AUSTRIA	BELGIUM	BULGARIA	CROATIA
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	TWA: 0.005 ppm TWA: 0.05 mg/m³ STEL 0.01 ppm STEL 0.1 mg/m³ Respiratory sensitizer Skin sensitizer	-	STEL: 0.07 mg/m³ TWA: 0.05 mg/m³	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³
CHEMICAL NAME	**CYPRUS**	**CZECH REPUBLIC**	**DENMARK**	**ESTONIA**	**FINLAND**
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	-	-	TWA: 0.005 ppm STEL: 0.01 ppm	STEL: 0.035 mg/m³
CHEMICAL NAME	**FRANCE**	**GERMANY**	**GERMANY MAK**	**GREECE**	**HUNGARY**
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	-	-	TWA: 0.02 ppm TWA: 0.2 mg/m³ STEL: 0.02 ppm STEL: 0.2 mg/m³	-
CHEMICAL NAME	**IRELAND**	**ITALY**	**ITALY REL**	**LATVIA**	**LITHUANIA**
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ Sensitizer	-	-	-	Sensitizer TWA: 0.005 ppm TWA: 0.05 mg/m³ Ceiling: 0.01 ppm Ceiling: 0.1 mg/m³
CHEMICAL NAME	**LUXEMBOURG**	**MALTA**	**NETHERLANDS**	**NORWAY**	**POLAND**
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	-	-	TWA: 0.005 ppm STEL: 0.01 ppm	STEL: 0.09 mg/m³ TWA: 0.03 mg/m³
CHEMICAL NAME	**SWEDEN**		**SWITZERLAND**		**UNITED KINGDOM**
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	NGV: 0.002 ppm Bindande KGV: 0.005 ppm Sensitizer		STEL: 0.02 mg/m³		STEL: 0.07 mg/m³ Capable of causing occupational asthma

Biological occupational exposure limits

CHEMICAL NAME	EUROPEAN UNION	AUSTRIA	BULGARIA	CROATIA	CZECH REPUBLIC
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	10 Qg/g Creatinine (urine - 4,4'-Diaminodipheny lmethane after end of work day, at the end of a work week/end of the shift) (-)	-	STEL: 0.07 mg/m³ TWA: 0.05 mg/m³	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³
CHEMICAL NAME	**HUNGARY**	**IRELAND**	**ITALY**	**ITALY REL**	
Benzene, 1,1-methylenebis[isocyanato-26447-40-5	-	1 Qmol/mol Creatinine (urine - urinary Diamine post task)	-	-	

Derived No Effect Level (DNEL) No information available.
Benzene, 1,1-methylenebis[isocyanato- (26447-40-5).

EXPOSURE SCENARIO	EXPOSURE ROUTE	POTENTIAL HEALTH EFFECTS	VALUE
Long term	Inhalation	Long term Local effects	0.05 mg/m³
Short term	Inhalation	Local ffects Acute toxicity	0.1 mg/m³
Short term	Dermal	Systemic toxcity	50 mg/kg bw/day
Short term	Dermal	Acute toxicity	28.7 mg/cm²

Predicted No Effect Concentration (PNEC)
No information available.
Benzene, 1,1-methylenebis[isocyanato- (26447-40-5)

ENVIRONMENT	VALUE
Freshwater	1 mg/l
Marine water	0.1 mg/l
Freshwater sediment	11.7 mg/kg
Marine sediment	1.17 mg/kg
Soil	1 mg/kg
Impact on sewage treatment	1 mg/l

8.2. Exposure controls

Engineering controls: Showers, eyewash stations, and ventilation systems.

Eye/face protection: No special protective equipment required.

Hand protection: Gloves must conform to standard EN 374.

Skin and body protection: No special protective equipment required.

Respiratory protection: Use appropriate respiratory protection. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance Transparent: White Solid

Color: White

Odor: Slight

Odor threshold: No information available

Property	Values	Remarks/Method
Melting point / freezing point	No data available	None known
Boiling Point / Boiling Range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air	No data available	None known
Upper flammability or explosive limits	No data available	None known
Lower flammability or explosive limits	No data available	None known
Flash point	No data available	None known
Autoignition teperature	No data available	None known
Decomposition temperature	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	10000 mPa s	@ 120°C
Water solubility	Immiscible in water	None known
Solubility in other solvents	No data available	None known
Partition coeffient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.1	g/l at 20°C
Bulk density	No data available	None known
Density	No data available	None known
Relative vapor density	No data available	None known
Particle characteristics	No data available	
Particle size	No data available	
Particle size distribution	No data available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Reacts with water, Alcohols, Amines

10.2. Chemical stability

Stability Stable under recommended storage conditions. Decomposes slowly on exposure to water.

Explosion data

Sensitivity to mechanical impact: None.
Sensitivity to static discharge: None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat. Humidity.

10.5. Incompatible materials

Incompatible materials Alcohols. Acids. Bases. Amines.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Nitrogen oxides (NOx). Isocyanates.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.

Skin contact: Hot liquid can cause severe burns. Prolonged or repeated contact may dry skin and cause irritation.

Ingestion: Not an expected route of exposure. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

Numerical measures of toxicity.
No information available.

Acute toxicity.

Component information

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Benzene, 1,1-methylenebis[isocyanato-	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m3 (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Classification is based on mixture calculation methods based on component data.
Based on available data, the classification criteria are not met. May cause skin irritation.

Serious eye damage/eye irritation: Classification is based on mixture calculation methods based on component data. Based on available data, the classification criteria are not met. May cause eye irritation.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: Specific test data for the substance or mixture is not available.

Carcinogenicity: No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

CHEMICAL NAME	EUROPEAN UNION
Benzene, 1,1-methylenebis[isocyanato-	Carc. 2

Reproductive toxicity No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: Based on available data, the classification criteria are not met. Classification is based on mixture calculation methods based on component data. May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard: No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity: Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation: No information available.

Component Information

CHEMICAL NAME	PARTITION COEFFICIENT
Benzene, 1,1-methylenebis[isocyanato-	4.5

12.4. Mobility in soil

Mobility in soil: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

CHEMICAL NAME	PBT AND VPVB ASSESSMENT
Benzene, 1,1-methylenebis[isocyanato-	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging: Do not reuse empty containers

SECTION 14: Transport information

IATA

14.1 UN number or ID number: Not regulated

14.2

14.3 Transport hazard class(es): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user
Special Provisions: None

IMDG

14.1 UN number or ID number: Not regulated

14.2

14.3 Transport hazard class(es): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user
Special Provisions: None

14.7 Maritime transport in bulk according to IMO instruments: No information available

RID

14.1 UN number or ID number: Not regulated

14.2

14.3 Transport hazard class(es): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions: for user
Special Provisions: None

ADR

14.1 UN number or ID number: Not regulated

14.3 Transport hazard class(es): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user
Special Provisions: None

SECTION 15: Regulatory information

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

National regulations
France
Occupational Illnesses (R-463-3, France)

CHEMICAL NAME	FRENCH RG NUMBER	TITLE
Benzene, 1,1-methylenebis[isocyanato-	RG 62	-

Germany
Water hazard class (WGK) non-hazardous to water (nwg)

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

CHEMICAL NAME	RESTRICTED SUBSTANCE PER REACH ANNEX XVII	SUBSTANCE SUBJECT TO AUTHORIZATION PER REACH ANNEX XIV
Benzene, 1,1-methylenebis[isocyanato- - 26447-40-5	56. 75. 74.	-

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

International Inventories
TSCA 8(b) Contact supplier for inventory compliance status
DSL/NDSL Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H413 - May cause long lasting harmful effects to aquatic life

Legend
SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

CLASSIFICATION PROCEDURE	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

TEST ITEMS			
NO.	**ITEMS**	**STANDARD**	**CONCLUSION**
1	Fire classification of construction products and building elemenbts - Part 1: Classification using data	EX 13501-1:2018	B-s1,d0

Sample Description:
PET acoustic panel, 9mm, 1900 grams/m^2

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1. EN 13823:2020 reaction to fire tests for building products - building products excluding floorings exposed to the thermal attack by a single burning item

1.1. Sample details

SAMPLE SIZE	Long limb: 1500mmx1000mm
	Short limb:1500mmx495mm
THICKNESS	About 8.6mm

PRECONDITION	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

1.2 Results

	1	2	3	Average
FIGRA $_{0.2MJ}$ (W/s)	0	0	0	0
FIGRA $_{0.4MJ}$ (W/s)	0	0	0	0
LFS< edge of speciment (Yes/No)	Yes	Yes	Yes	--
THR $_{600s}$ (MJ)	0.1	0.2	0.6	0.3
SMOGRA (m^2/s^2)	0	0	0	0
TSP $_{600s}$ (m^2)	13.5	10.8	19.3	14.5
Flaming particles or droplets (Yes/No)	No	No	No	--
Observe	--			

Remark:

FIGRA $_{0.2MJ}$ = maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR-threshold of 0.2MJ.

FIGRA $_{0.4MJ}$ = maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR-threshold of 0.4MJ.

LFS = lateral flame spread on the long specimen wing.

THR $_{600s}$ = Total heat release from the specfimen in the first 200s of exposwure to the main burner flames.

SMOGRA = smoke growth rate, the maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.

TSP $_{600s}$ = Totla smoke production from the specimen in the first 600s of exposure the main burner flames.

2. EN ISO 11925-2:2020 Reaction to fire tests - ignitability of building products subjcted to direct impingement of flame - part 2: single-flame source

2.1 Sample details

SAMPLE SIZE	250mmx90mm
THICKNESS	About 8.6mm

PRECONDITION	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

2.2 Results

Face ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper ocurs (Yes/No)	No	No	No

Edge ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper ocurs (Yes/No)	No	No	No

FELT

EN 13501-1:2018 table 1 - classification:

Classification	Test method		Classification criteria
B	EN 13823 and		FIGRA $_{0.2MJ}$ ≤120w/S; LFS< edge of specimen THR 600 ≤7.5 MJ
	EN ISO 11925-2 Exposure = 30 s		Fs ≤150mm within 60s
Additional classification	Smoke	s1	SMOGRA≤ 30m²/s², TSP$_{600}$≤50m²
		s2	SMOGRA≤ 180m²/s², TSP$_{600}$≤200m²
		s3	Not s1 or s2
	Flaming droplets/particles	d0	No flaming droplets/particles occur wuthin 600s
		d1	No flaming droplets/particles persisiting longer than 10s within 600s
		d2	Not d0 or d1 Ignites of the paper in EN ISO 11925-2 results in a d2 classification

Test standard	Record	Conclusion
EN 13823	FIGRA $_{0.2MJ}$=0 W/s LFS < Sample edge THR $_{600s}$ = 0.3MJSMOGRA = 0 m²/s² TSP $_{600s}$ = 14.5m² No flaming droplets/particles occur within 600s	B-s1,d0
EN ISO 11925-2	FS≤150mm within 60s	