

## Safety Data Sheet

### LASTRA EPS

Safety Data Sheet dated 7/30/2021 version 1

Attention: the numbering restarts from 1.



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

### 1.1. Product identifier

Mixture identification:

Trade name: LASTRA EPS

Trade code: IEBIR100

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

Recommended use: EPS thermal insulation panel

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

Company: FASSA UK LTD

Fassa House - Ashchurch Business Centre,

Alexandra Way, Ashchurch, Tewkesbury - UK

Tel. +44 (0) 1684.212272

Responsible: laboratorio.spresiano@fassabortolo.it

### 1.4. Emergency telephone number

NHS 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and Council and later amendments requires preparation of safety data sheets (SDS) for substances and mixtures that are classified as dangerous.

In accordance with the aforementioned Regulation, the material supplied is defined as an "article" and as such is not subject to the requirement to provide a safety data sheet. Article 33 nonetheless specifies the requirement to provide the customer with information on the presence of substances that are or may be included in Annex XIV.

This data sheet is therefore provided on a voluntary basis as information on safe use of the article. Any hazard statements refer not to the article but to a hypothetical chemical product with the same composition.

### Regulation (EC) n. 1272/2008 (CLP)

0 The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT/vPvB in percentage  $\geq 0.1\%$ .

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: LASTRA EPS

### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 5 - < 10$ %	Pentane	CAS:109-66-0 EC:203-692-4 Index:601-006-00-1	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	01-2119459286-30-xxxx
$\geq 5 - < 10$ %	isopentane	CAS:78-78-4 EC:201-142-8 Index:601-085-00-2	Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	01-2119475602-38-xxxx

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None known

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

If you feel unwell, seek medical advice.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

CO2, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

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

Burning produces heavy smoke.

Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, nitrogen oxides).

Vapours may form explosive mixture with air.

### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

See protective measures under point 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **6.3. Methods and material for containment and cleaning up**

Material suitable for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved with water.

Retain contaminated washing water and dispose it.

In the event of accidental spillage, remove the product by dry vacuuming.

### **6.4. Reference to other sections**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Do not get in eyes, on skin, or on clothing.

Avoid breathing dust/fume/gas/vapours.

Avoid accumulating electrostatic charge.

Electrical equipment must be protected in compliance with appropriate standards.

Advice on general occupational hygiene:

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Possible microleaks of propellant will go down and, if mixed with air and in presence of primers, may become deflagrating.

Incompatible materials:

See chapter 10.5

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

Recommendation(s)

See chapter 1.2

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Pentane	EU	NNN		3000	1000			
	ACGIH	NNN			1000			Narcosis, resp tract irr
	MAK	AUSTRIA		1800.000	600.000	3600.000	1200.000	
	VLEP	BELGIUM		1800.000	600.000	2250.000	750.000	
	VLE	FRANCE		3000.000	1000.000			
	AGW	GERMANY		3000.000	1000.000	6000.000	2000.000	
	MAK	GERMANY		3000.000	1000.000	6000.000	2000.000	
	VLEP	ITALY		2000.000	667.000			
	VLEP	ROMANIA		3000.000	1000.000			
	VLA	SPAIN		3000.000	1000.000			
	SUVA	SWAZILAND		1800.000	600.000	3600.000	1200.000	
	WEL	U.K.		1800.000	600.000			
isopentane	EU	NNN		3000	1000			
	ACGIH	NNN			1000			Narcosis, resp tract irr
	MAK	AUSTRIA		1800.000	600.000	3600.000	1200.000	
	VLEP	BELGIUM		1800.000	600.000	2250.000	750.000	
	VLE	FRANCE		3000.000	1000.000			
	AGW	GERMANY		3000.000	1000.000	6000.000	2000.000	
	MAK	GERMANY		3000.000	1000.000	6000.000	2000.000	
	VLEP	ITALY		2000.000	667.000			
	VLEP	ROMANIA		3000.000	1000.000			
	VLA	SPAIN		3000.000	1000.000			
	SUVA	SWAZILAND		1800.000	600.000	3600.000	1200.000	
	MAC	NETHERLAND S		1800.000				
	WEL	U.K.		1800.000	600.000			

### 8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Personnel should wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre.

Protection for hands:

There is no material or combination of materials for gloves that can guarantee unlimited resistance to any individual chemical or combination of chemicals.

For prolonged or repeated handling, use chemical resistant gloves.

Suitable materials for safety gloves (EN 16523); Butyl caoutchouc (butyl rubber): thickness  $\geq$  0.4 mm; permeation time  $\geq$  480 min.; NBR (Nitril rubber): thickness  $\geq$  0.4 mm; permeation time  $\geq$  480 min.

The choice of suitable gloves does not only depend on the material, but also on other quality characteristics that vary from one

manufacturer to another and on the manner and times according to which the mixture is used.

#### Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Combination filtering device (EN 14387): mask with filter A-P2.

#### Environmental exposure controls:

See point 6.2

#### Hygienic and Technical measures

See section 7.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance: Solid

Color: various

Odour: none

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: 60 °C (140 °F)

Initial boiling point and boiling range: N.D.

Flash point: 370 °C (698 °F) Notes non-residual pentane

Evaporation rate: N.D.

Density: 8-60 kg/m<sup>3</sup> (20°C)

Upper/lower flammability or explosive limits: 7.80 % v/v (UEL). 1.30 % v/v (LEL). ( pentane )

Vapour density: N.A.

Vapour pressure: N.D.

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 450.00 °C

Decomposition temperature: 230.00 °C

Viscosity: Not Relevant

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### 9.2. Other information

Conductivity: N.A.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

It may generate dangerous reactions (See subsections below)

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

Keep away from heat sources.

Avoid exposing the product to direct sunlight.

### 10.5. Incompatible materials

Avoid contact with solvents.

See chapter 10.3

### 10.6. Hazardous decomposition products

Combustible, but does not sustain expansion of the fire after the ignition source has been removed. Combustion products include carbon monoxide, carbon dioxide and smoke, which may reduce visibility. Traces of styrene may be released.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Thermal decomposition of EPS at high temperatures, e.g. hot-wire cutting, may cause styrene to be released: in this case, refer to the occupational exposure limits for styrene (e.g. hot-wire cutting)

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT/vPvB in percentage  $\geq 0.1\%$ .

### 12.6. Other adverse effects

N.A.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Do not allow it to enter drains or watercourses.

The product and product waste are not classified as hazardous waste. Recyclable in common plastic recycling facilities. It may be incinerated with energy recovery in plastic incineration plants or disposed of in a landfill for non-hazardous waste.

European waste catalogue code: 17 06 04 (insulation materials other than those mentioned in 17 06 01 and 17 06 03).

Plastic packaging may be recovered in waste sorting facilities, treated with energy recovery in an authorised facility or disposed of in a landfill for non-hazardous waste.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

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## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

### 14.1. UN number

N.A.

### 14.2. UN proper shipping name

N.A.

**14.3. Transport hazard class(es)**

N.A.

**14.4. Packing group**

N.A.

**14.5. Environmental hazards**

N.A.

**14.6. Special precautions for user**

N.A.

Road and Rail (ADR-RID) :

N.A.

Air (IATA) :

N.A.

Sea (IMDG) :

N.A.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

N.A.

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**SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Directive 2010/75/EU

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) 2015/830

**Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:**

Restrictions related to the product: 3

Restrictions related to the substances contained: 40

**Provisions related to directive EU 2012/18 (Seveso III):**

N.A.

**Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

**German Water Hazard Class.**

Class 3: extremely hazardous.

**SVHC Substances:**

On the basis of available data, the product does not contain any SVHC in percentage  $\geq 0.1\%$ .

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

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**SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
EUH066	Repeated exposure may cause skin dryness or cracking.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

<b>Code</b>	<b>Hazard class and hazard category</b>	<b>Description</b>
2.6/1	Flam. Liq. 1	Flammable liquid, Category 1
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Safety data sheets of raw materials suppliers.

CCNL - Appendix 1

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DNEL: Derived No Effect Level.

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IC50: half maximal inhibitory concentration

IMDG: International Maritime Code for Dangerous Goods.

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Lethal Dose Low

LC0: Lethal concentration, for 0 percent of test population.

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available  
N.D.: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TLV-TWA: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.