

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Product Name:** CHEMIFOAM POLYURETHANE FOAM B3 MANUAL**Trade Name:** CHEMIFOAM POLYURETHANE FOAM B3 MANUAL**Type of product:** Aerosol**1.2-Relevant identified uses of the substance or mixture and uses advised against****Relevant Identified Uses:** Polyurethane Foam for industrial use, consumer use, professional use**Uses Advised Against:** No additional information available.**1.3 Details of supplier of safety data sheet****LUSAVOUGA, S.A.**

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1.4 Emergency Telephone Number**Emergency Number:** +351 800 250 250 (CIAV - Available 24h - Portugal)**SECTION 2: Hazards Identification****2.1 Classification of the substances or mixture****Product Definition:** Mixture**Classification according to Regulation (EC) No. 1272/2008 (CLP)**

Flam. Aerosol 1	H222; H229
Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2	H319
Resp. Sens. 1	H334
STOT SE 3	H335
Carc. 2	H351
STOT RE 2	H373

2.2 Label Elements

Labelling in accordance with (EC) No. 1272/2008



GHS02

GHS07.....

GHS08

Signal Word (CLP): Danger**Hazard Statements (CLP)**

H222: Extremely flammable aerosol

H229: Pressurised container: May burst if heated

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H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Precautionary Statements (CLP)

P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P103: Read label before use.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P211: Do not spray on an open flame or other ignition source
P251: Pressurized container – Do not pierce or burn, even after use
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash ... thoroughly after handling
P272: Contaminated work clothing should not be allowed out of the workplace
P280: Wear protective gloves/protective clothing/eye protection/face protection
P281: Use personal protective equipment as required
P285: In case of inadequate ventilation wear respiratory protection
P302+P352: IF ON SKIN Wash with soap and water
P304+P340: IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P305+P351+P338: IF IN EYES Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P308+P313: IF exposed or concerned Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P314: Get Medical advice/attention if you feel unwell
P321: Specific treatment (see ... on this label)
P332+P313: If skin irritation occurs Get medical advice/attention
P333+P313: If skin irritation or a rash occurs
P337+P313: Get medical advice/attention
P342+P311: Call a POISON CENTER or doctor/physician
P362: Take off contaminated clothing and wash before reuse
P363: Wash contaminated clothing before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P405: Store locked up
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501: Dispose of contents/container to ...
EUH204: Contains isocyanates. May produce an allergic reaction

2.3 Other hazards**Results of PBT and vPvB**

PBT: Not Applicable.

vPvB: Not Applicable.

SECTION 3: Composition/Information on Ingrédients**3.1 Substance**

Not applicable.

3.2 Mixture

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components	CAS Number	EC Number	Content	Classification
Diphenylmethandiisocyanate, isomers and homologues	9016-87-9	618-498-9	25-50 %	Skin Irrit. 2:H315 Eye Irrit. 2:H319 Resp. Sens. 1:H334 STOT SE 3:H335 STOT RE 2:H373 Skin Sens. 1:H317 Carc. 2:H351 Acute Tox. 4 (Inhalation):H332
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	237-158-7	5-10 %	Acute Tox. 4 (Oral):H302
Isobutane	75-28-5	200-857-2	2-10 %	Flam. Gas 1:H220
Propane	74-98-6	200-827-9	2-10 %	Flam. Gas 1:H220 Press. Gas (Comp.):H280
Dimethyl ether	115-10-6	204-065-8	2-10 %	Flam. Gas 1:H220 Press. Gas (Comp.):H280

Only dangerous ingredients for which a CLP classification is already available are displayed in this table.
 Full text of the H Phrases indicated by codes: see section 16 'Other Information'.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information

: Effects may be delayed. Keep affected person under observation. In case of adverse health effects seek medical advice/attention.

After Inhalation

: Remove person to fresh air. Remove dust contaminated clothing. Rinse face/mouth with warm water. Keep at rest until fully recovered. If continued irritation / difficulty occurs when breathing seek medical attention.

After Skin Contact

: Wash in flowing water or shower. Remove contaminated clothing and wash before reuse. Prolonged or repeated contact may cause skin irritation.

After Eye Contact

: Irrigate with copious flowing water immediately and continuously for 15 minutes. In all cases of eye contamination/irritation it is recommended to seek medical advice/attention.

After Ingestion

: Do not induce vomiting. Immediately rinse mouth and provide fresh air. Get medical attention immediately

4.2 Most important symptoms and effects, both acute and delayed

After Inhalation

: Respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

After Skin Contact

: Irritation. May cause allergic skin reaction.

After Eye Contact

: Eye Irritation

4.3 Indication of any immediate medical attention and special treatment

Treat symptomatically

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

: Carbon dioxide foam, powder or water spray.

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5.2 Special hazards arising from substance or mixture

Hazardous combustion products : Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards : Fire causes formation of toxic gases. Aerosol cans may explode in a fire.

Specific hazards : Fire creates: Irritating gases/vapours/fumes of: Hydrogen cyanide (HCN), Nitrous gases (NO_x).

5.3 Advice for firefighters

Special Fire Fighting Procedures : Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire.

Protective Equipment : Wear self-contained breathing apparatus. Wear full protective equipment in case of fire

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Ensure adequate ventilation. Keep away from ignition sources. Wear protective equipment. Do not breathing dust/fume/gas/mist/vapours/spray. Keep unprotected persons away.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Avoid dust generation. Remove the product mechanically. Place it in a closed container. Notify authorities if product enters sewers or public waters.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling : Keep away from contact with open flame and other non-processing sources of ignition. Do not smoke. Pressurized container: Do not pierce or burn, even after use. Avoid inhalation of product dust, fumes or smoke. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Read safety precautions before use. Open and handle receptacle with care.

Hygiene measures : Do not eat, drink, smoke when using this product. Do not use contaminated work out of the work and wash contaminated clothes before use again. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in well ventilated and cool place. Do not exposure to temperatures exceeding 50 °C/ 122°F .Protect from sunlight. Keep container tightly closed.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure Controls/personal protection

8.1 Control Parameters

Ingredient	Workplace Exposure Limit	
	Short Term Value	Long Term Value
Diphenylmethandiisocyanate, isomers and homologues	0.07 mg/m ³ (sen; as NCO)	0.02 mg/m ³ (sen; as NCO)
Dimethyl Ether	958 mg/m ³ ; 500 ppm	766 mg/m ³ ; 400 ppm

8.2 Exposure Controls

Appropriate engineering controls	: Ensure good ventilation of work station.
Hand Protection	: Protective gloves
Eye Protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
Environmental exposure controls	: Avoid release to the environment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: Aerosol
Colour	: According to product specification
Odour	: Characteristic
Odour Threshold	: No data available
pH	: No data available
Relative Evaporation rate	: No data available
Melting Point	: No data available
Boiling point	: No data available
Freezing Point	: No data available
Flash point	: Not applicable, as aerosol.
Decomposition temperature	: No data available
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Density at 23 °C	: 15-18 g/cm ³
Relative Density	: No data available
Solubility in water	: Not miscible or difficult to mix.
Oxidizing properties	: No data available
Relative Vapour Density at 20°C	: No data available
Viscosity, kinematic	: No data available
Viscosity, kinematic	: No data available
Danger of explosion	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Explosion limits	: No data available

9.2 Other Information

No further relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions.

10.4 Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with strong oxidisers. Reacts strongly with strong acids, bases.

10.5 Incompatible materials

Acids, bases and oxidants. Amines, alcohols, water.

10.6 Hazardous decomposition products

High temperatures generate: Toxic gases/vapours/fumes of: Carbon dioxide (CO₂), Carbon monoxide (CO), Hydrogen cyanide (HCN).

SECTION 11: Toxicology Information**11.1 Information on toxicological effects**

Acute Toxicity : Not Classified.

Skin corrosion/irritation : Irritant to skin and mucous membranes

Serious eye damage/irritation : Causes serious eye irritation

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled may cause skin reaction.

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

CMR (carcinogenic, mutagenic and reprotoxic) effects: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

SECTION 12: Ecological Information**12.1 Toxicity**

As to information provided to us and experience, this product does not have any harmful effects to environment or cause long-term adverse effects in the environment when it is handled and used in accordance with specifications.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal Considerations**13.1 Waste treatment methods**

Disposal Methods : Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transportation information**14.1 UN Number**

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ADR/IMDG/IATA/ADN/RID : 1950

14.2 UN Proper Shipping Name

ADR/ RID : 1950 Aerosols
 IMDG : Aerosols
 IATA/ADN : Aerosols, flammable

14.3 Transport Hazard Class(es)

ADR/IMDG/IATA/ADN/RID

Transport hazard class (es) :2.1

Danger labels :2.1



14.4 Packaging Group

ADR/IMDG/IATA/ADN/RID :Not applicable

14.5 Environmental Hazards

Dangerous for the environment : No
 Marine Pollutant : No
 Other Information : No supplementary information available.

14.6 Special precautions for user

Overland Transport

Classification code (ADR) : 5F
 Special provisions (ADR) : 190, 327, 344, 625
 Limited quantities (ADR) : 11
 Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P207, LP02
 Special packing provisions (ADR) : PP87, RR6, L2
 Mixed packing provisions (ADR) : MP9
 Transport category (ADR) : 2
 Special provisions for carriage – Packages: V14 (ADR)
 Special provisions for carriage – Loading : CV9, CV12 unloading and handling (ADR)
 Special provisions for carriage operation (ADR) : S2
 Tunnel restriction code (ADR) : D

Sea Transport

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959
 Limited quantities (IMDG) : SP277
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P207, LP02
 Special packing provisions (IMDG) : PP87, L2
 EmS-No. (Fire) : F-D
 EmS-No. (Spillage) : S-U
 Stowage category (IMDG) : None
 Stowage and handling (IMDG) : SW1, SW22
 Segregation (IMDG) : SG69
 MFAG-No : 126

Rail transport

Classification code (RID) : 5F
Special provisions (RID) : 190, 327, 344, 625
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Packing instructions (RID) : P207, LP02
Special packing provisions (RID) : PP87, RR6, L2
Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage – Packages: W1 (RID)
Special provisions for carriage – Loading : CW9, CW12 unloading and handling (RID) :
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

Air Transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kg
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167, A802
ERG code (IATA) : 10L

Inland Waterway Transport

Classification code (ADN) : 5F
Special provisions (ADN) : 190, 327, 344, 625
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01, VE04
Number of blue cones/lights (ADN) : 1

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not Applicable.

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

The product is classified and labelled according to Regulation (EC) No. 1272/2008.

This safety datasheet complies with the requirements of Regulation (EC) No. 2015/830.

Contains no REACH substances with Annex XVII restrictions.

Contains no Reach Annex XIV substances.

Contains no substance on the REACH candidate list

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Hazard Phrases

H220: Extremely flammable gas
H222: Extremely flammable aerosol
H229: Pressurised container: May burst if heated
H280: Contains gas under pressure; may explode if heated
H302: Harmful if swallowed
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 (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Abbreviations and Acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstract Service
SEN: Capable of causing occupational asthma.
Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas
Acute Tox. 4(Inhalation): Acute toxicity (Inhalation), Hazard Category 4
Acute Tox. 4(Oral): Acute toxicity (Oral), Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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