CELO Fixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 1 / 8

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

1.1 Product identifier

CELO Fuel Cell

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

1.2.1 Relevant uses Cartridges for tools

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company CELO Fijaciones SL

C/ Rosselló 7 P.I. La Bruguera 08211 Castellar de Vallés (ESPAÑA)

Phone: (34) 93 715 83 83 E-Mail: info@celofixings.es

Address enquiries to

Technical information SDS

(Giftnotruf München, 24/7, Deutsch und Englisch)

1.4 Emergency telephone number

Advisory body

+49 (0) 89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Gas 1: H220 Extremely flammable gas.

Press. Gas: H280 Contains gas under pressure; may explode if heated.

2.2 Label elements

Signal word

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



DANGER

Hazard statements H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P381 Eliminate all ignition sources if safe to do so

2.3 Other hazardsDoes not contain any PBT or vPvB substances.

Environmental hazards

Further hazards were not determined with the current level of knowledge.

Other hazards

CELOFixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 2 / 8

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
55 - 70	Propane
	CAS: 115-07-1, EINECS/ELINCS: 204-062-1, EU-INDEX: 601-011-00-9
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
30 - 45	1-Butane
	CAS: 106-98-9, EINECS/ELINCS: 203-449-2, EU-INDEX: 601-012-00-4
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact No special measures necessary.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion not applicable

4.2 Most important symptoms and effects, both acute and delayed

Vertigo

Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted

hydrocarbons

Bursting gas cylinder can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Keep away from all sources of ignition.

According regulation (EC) No. 1907/2006

CELOFixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 3 / 8

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Not required under normal conditions.

6.4 Reference to other sections

See SECTION 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Special instructions for safe handling must be obtained before use.

Keep away from sources of ignition - refrain from smoking.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Depending upon stock quantity relevant regulations to the fire and explosion prevention

consider.

Do not store together with food and animal food/diet.

Keep in a cool place. Store in a dry place. Protect from heat/overheating and from sun.

Recommended storage temperature: 5-25 °C (41-77 °F).

7.3 Class LGK 2A

7.4 Specific end use(s) See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances

Eye protection Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).

Skin protection Protective clothing.

Other Do not inhale gases/vapours/aerosols.

Respiratory protection Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions

According regulation (EC) No. 1907/2006

CELOFixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 4 / 8

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form gas

Color colourless

Odor characteristic

Odour threshold not determined
pH-value not applicable
pH-value [1%] not applicable
Boiling point [°C] - 6,25 (1-Buten)

Flash point [°C] - 108

Flammability (solid, gas) [°C] not applicable

Lower explosion limit 1,4 Vol% (Propylen)

Upper explosion limit 10 Vol% (1-Buten)

Oxidising properties no
Vapour pressure/gas pressure [kPa] 676
Density [g/ml] 0,5541
Bulk density [kg/m³] not applicable
Solubility in water virtually insoluble

Partition coefficient [n-octanol/water] not applicable
Viscosity not applicable
Relative vapour density determined > 1,5 (Luft = 1)

in air

 Evaporation speed
 not applicable

 Melting point [°C]
 not determined

 Autoignition temperature [°C]
 385 (1-Buten)

 Decomposition temperature [°C]
 not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Formation of explosive gas/air mixtures.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

According regulation (EC) No. 1907/2006

Fixings technology

CELO Fuel Cell

Version 0.1 SDS Number: gasfone/001 Revision Date:16.03.2020 Date of first issue: 16.03.2010

Page 5 / 8

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled. Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled. Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled. Specific target organ toxicity — Based on the available information, the classification criteria are not fulfilled.

single exposure Specific target organ toxicity —

repeated exposure Mutagenicity

Reproduction toxicity Carcinogenicity **Aspiration hazard**

General remarks

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled.

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Behaviour in environment

compartments

Behaviour in sewage plant **Biological degradability**

No information available.

No information available. No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

According regulation (EC) No. 1907/2006



CELO Fuel Cell

Version 0.1 SDS Number: gasfone/001 Revision Date:16.03.2020 Date of first issue: 16.03.2010

Page 6 / 8

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* 150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to

ADR/RID

3150

Inland navigation (ADN)

3150

Marine transport in accordance with

IMDG

3150

Air transport in accordance with IATA 3150

14.2 UN proper shipping name

Transport by land according to ADR/RID

Hydrocarbon gas refills for small devices

- Classification Code

- Label



(D) - Tunnel Restriction Code

Inland navigation (ADN) Hydrocarbon gas refills for small devices

- Classification Code

- Label



Marine transport in accordance with **IMDG**

Hydrocarbon gas refills for small devices

- EMS

F-D, S-U

- Label



Air transport in accordance with IATA Hydrocarbon gas refills for small devices

- Label



According regulation (EC) No. 1907/2006

CELOFixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 7 / 8

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

2

Inland navigation (ADN)

2

Marine transport in accordance with 2.1

IMDG

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

no

Inland navigation (ADN)

Marine transport in accordance with new

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

for people

100 %

15.2 Chemical safety assessment

- VOC (2010/75/CE)

According regulation (EC) No. 1907/2006

Fixings technology

CELO Fuel Cell

Version 0.1 Revision Date:16.03.2020 SDS Number: gasfone/001 Date of first issue: 16.03.2010

Page 8 / 8

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Flam. Gas 1: H220 Extremely flammable gas. (Bridging principle "Substantially similar

mixtures")

none

Press. Gas: H280 Contains gas under pressure; may explode if heated. (Bridging principle

"Substantially similar mixtures")

Modified position