

Safety Data Sheet

110 ml gas cartridge

In accordance with regulation (EC) No.1907/2006

Version:2

Version date: 15/10/2020

Language: EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product name : 110 ml gas cartridge
 Product code : 357402

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

Relevant identified uses : Gas cartridges for nail guns.
 Uses advised against : Any method of use not mentioned above or in point 7.3

1.3. Details of the supplier of the safety data sheet

Supplier : Name: LR ETANCO SAS
 Street: Parc Les Erables - Bâtiment 1 - 66 route de Sartrouville - BP49
 Postcode/Town: 78231 Le Pecq
 Country: France
 Telephone: 33 (0)1 34 80 52 00
 Fax: 33 (0)1 30 71 01 89
 Website: <http://www.etanco.eu>
 Email: commercial.france@etanco.fr

1.4. Emergency telephone number

France: 33 (0)1 45 42 59 59

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No.1272/2008 [CLP]

Classification	Hazard statements (H)
Aerosol 1	H222+H229 Extremely flammable aerosol. Pressurised container: may burst if heated.

2.2. Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

Hazard pictograms



Signal word	Danger
Product identifiers	-
Hazard statements	H222+H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.
Supplemental hazard information (EU)	-
Precautionary statements - General	P102 - Keep out of reach of children.
Precautionary statements - Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary statements - Response	P211 - Do not spray on an open flame or other ignition source.
Precautionary statements - Storage	P251 - Do not pierce or burn, even after use.
Precautionary statements - Disposal	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

The mixture does not contain substances classed as "Substances of Very High Concern" (SVHC) $\geq 0.1\%$ published by the European Union. The European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu>. The substance does not meet either the criteria for PBT or vPvB in accordance with Appendix XIII of Regulation (EC) 1907/2006 (REACH).

Adverse effects on health and symptoms	:	This mixture does not represent a risk to health, except for possible occupational exposure limits (see paragraphs 2 and 11).
Negative environmental effects	:	This mixture is not hazardous for the environment. No foreseeable damage to the environment under known normal conditions of use.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substance	C (%)	Classification	Specific concentration limits	Note
Petroleum gases, liquefied ** CAS No.68476-85-7 EC No.: 270-704-2 IDX No.: 649-202-00-6 REACH No.: exempted in accordance with Article 2(7)(b) of REACH	C< 80.0%	H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated.		

3.2. Mixtures

No data available

3.3. Comment

Substances: Not applicable.

** [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 to C7 and boiling in the range of approximately -40°C to 80°C (-40°F to 176°F). The complete H statements are specified in point 16.

SECTION 4: FIRST AID

4.1. Description of first aid measures

Following inhalation	:	Go outside into the fresh air. Keep warm and quiet. Consult a doctor if the symptoms persist. Give artificial respiration or oxygen if necessary. Consult a doctor if any worrying symptoms appear.
Following skin contact	:	In case of frostbite, slowly warm up the affected areas by flushing with warm water. Otherwise, seek medical treatment immediately. Contaminated clothing may be a fire hazard and must therefore be soaked with water before being removed. Loosen tight clothing. Keep the victim warm and resting.
Following eye contact	:	DO NOT DELAY. Seek medical treatment immediately. Remove contact lenses if present and it is easy to do so. Continue rinsing. Rinse the eyes with plenty of water.
Following ingestion	:	Exposure by ingestion does not generally occur. In case of ingestion, rinse out the mouth with water. Do not make the victim vomit. Never give anything by mouth to a person who is unconscious. Consult a doctor - show the label to the doctor.

4.2. Main symptoms and effects, acute and delayed

Skin contact: Skin defatting, burning sensation, redness, may cause skin dryness or cracking after repeated exposure, frostbite caused by

spraying at close range, irritation.

Eye contact: Irritation, burning sensation, redness, eye watering.

Ingestion: May cause irritation of the mucous lining of the gastrointestinal tract, nausea, vomiting.

Inhalation: Possible irritation of the mucous membranes of the respiratory system, coughing, drowsiness and dizziness, headaches.

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

The doctor makes a decision concerning the continuation of medical treatment after carefully examining the injured party. Symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Foam, powder, carbon dioxide, water spray.

Unsuitable extinguishing media : Water jet.

5.2. Special hazards arising from the substance or mixture

– When burning, the product may produce harmful gases containing carbon oxides and other unidentified thermal decomposition products. Do not inhale the combustion products. This may constitute a health risk.

5.3. Advice for firefighters

– Typical personal protection in case of fire. Do not remain in the fire zone without self-contained breathing apparatus and without protective clothing resistant to chemical products. Do not allow the water used to extinguish the fire to enter the drains, surface water or ground water. The gas can accumulate on the surface of the ground and move over long distances, creating a risk of fire or explosion. Cool any containers posing a fire hazard from a safe distance using water spray. Pressurised container - risk of leakage or explosion at high temperature. Collect up the used extinguishing media.

5.4. Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

– Restrict outsider access to the affected area until appropriate clean-up operations are finished. Ensure the effects of the accidental release are only cleaned up by qualified personnel. In case of large spills, isolate the exposed area. Avoid any contamination of the eyes and skin. Do not inhale the aerosol. Ensure there is adequate ventilation. Wear appropriate personal protection equipment. Remove all ignition sources. Do not use open flames or tools which produce sparks. No smoking.

6.2. Environmental precautions

– Do not flush into surface water or sanitary sewer system. Prevent any other leakage or spillage if it is possible to do so safely. If the product contaminates rivers and lakes or the drains, inform the relevant authorities.

6.3. Methods and materials for containment and cleaning up

– Pick up the damaged containers mechanically. Absorb leaks using non-combustible liquid-binding materials (e.g. sand, soil, diatomaceous earth, vermiculite) and place in appropriate waste disposal containers. Clean the contaminated surface. Do not use tools which produce sparks and do not smoke. Treat the materials collected as waste.

6.4. Reference to other sections

– Appropriate action to be taken with the waste - Section 13.
– Personal personal protection equipment - Section 8.

6.5. Further information

No data available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

– Handle in accordance with good workplace health and safety practices. Avoid any contact with the skin and eyes. Do not inhale the aerosols. Ensure adequate general and/or local ventilation. Remove ignition sources - do not use open flames, do not smoke, do not use tools or clothing which produces sparks or clothing made of fabric which generates static electricity. Protect containers from heating. Do not spray on an open flame or any incandescent material. Protect against electrostatic discharge.

Advice on general workplace hygiene

– Apply general workplace hygiene rules. After work, remove contaminated clothing and carefully wash your whole body. Wash your hands and face during breaks. Do not eat, drink or smoke in the work area.

7.2. Conditions for safe storage, including any incompatibilities

– Store in a cool, dry place only. Keep aerosols away from any ignition source or ambient temperatures higher than 50°Celsius. Keep away from any ignition source and heat source. Do not smoke, use open flames or ignition devices in a warehouse. Do not pierce or burn the packaging, even after use. Keep away from food, foodstuffs and animal feed. Avoid contact with strong oxidizing agents - contact may cause ignition. Avoid contact with agents which are corrosive to steel - contact may damage the containers and release the contents of the aerosols.

7.3. Specific end use(s)

– No information concerning uses other than those mentioned in point 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

Necessary local and general ventilation. Ventilation inlets near to or above the work area. General ventilation outlets in the upper and lower parts of the premises. In case of poor ventilation, use respiratory protection. Showers and places to rinse the eyes must be provided.

Please note!

Breathing apparatus with cartridges must never be used in case of emergency or in areas where the vapour concentration or the oxygen levels are unknown. The wearer must be warned to leave the contaminated area immediately as soon as they detect odours through the breathing apparatus.

Personal protection equipment



Eye and face protection	:	Appropriate eye protection: No special equipment for minor exposure, i.e. when handling small quantities. OTHER: For potentially moderate or high exposure: Safety glasses with side shields. Wear a face shield and protective overalls in case of abnormal treatment problems.
Skin protection	:	Hand protection: No special equipment is necessary for the treatment of small quantities. OTHER: For potentially moderate exposure: Recommended material for gloves: nitrile rubber, minimum penetration time: 120 minutes, minimum thickness: 0.4 mm. Take into account the hazard characteristics of this product and the conditions specific to the workplace when choosing suitable protective gloves. The gloves must be discarded and replaced if they show signs of chemical degradation or penetration. Body protection: Choose body protection according to the quantity and concentration of the hazardous substance in the workplace.
Respiratory protection	:	Breathing apparatus: In normal conditions of use, breathing apparatus is not necessary. In case of insufficient ventilation, wear approved breathing apparatus with an AX type filter. Use

self-contained or airline breathing apparatus in the following cases: work in confined spaces, insufficient oxygen levels in the air, high, uncontrolled emissions or other circumstances in which masks with filters do not offer sufficient protection.

8.3. Further information

Recommended surveillance procedures:

Surveillance procedures must be implemented for concentrations of hazardous constituents in the air. Air quality control procedures must be used in the workplace - if available and reasonable for the work - in accordance with the relevant Polish or European standards, taking into account the conditions at the exposure site and the corresponding measurement methods adapted to the working conditions. The mode, type and frequency of the tests and measurements must satisfy the requirements of the Ministry of Health regulation of 2nd February 2011. (Dz. U. 2011 No.33, point 166).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Colourless
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Depending on the proportion of ingredients in the product, from -45°C (propane) to -0.5°C
Flash point:	- 40°C (butane); -104°C (propane)
Evaporation rate:	No data available
Flammability:	Extremely Flammable Aerosol.
Upper/lower flammability limits or explosive limits:	1.5-11. Propane < 31000 hPa, Temp. 70°C.
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	Insoluble in water.
Partition coefficient: n-octanol/water (log value):	No data available
Auto-ignition temperature:	> 365°C
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	The product may form an explosive mixture in the air.
Oxidising properties:	Non-oxidising

9.2. Other safety information

Surface tension at 20°C: Not applicable. Refractive index: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity in the recommended storage and handling conditions.

10.2. Chemical stability

Stable in the recommended storage and usage conditions.

10.3. Possibility of hazardous reactions

Possible risk of explosion in contact with the air. The mixture could react with oxidising agents.

10.4. Conditions to avoid

Pressurised container: protect from the sun and do not expose to temperatures higher than 50°C. Keep away from open flames, hot surfaces and ignition sources.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. Reference to other sections: 5.2.

10.7. Further information

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data about the mixture

No data available

Substances

No data available

11.2. Acute skin toxicity

Data about the mixture

No data available

Substances

No data available

11.3. Acute toxicity by inhalation

Data about the mixture

No data available

Substances

No data available

11.4. Skin corrosion

Data about the mixture

No data available

Substances

No data available

11.5. Eye damage

Data about the mixture

No data available

Substances

No data available

11.6. Skin sensitisation

Data about the mixture

No data available

Substances

No data available

11.7. STOT RE

Data about the mixture

No data available

Substances

No data available

11.8. STOT SE

Data about the mixture

No data available

Substances

No data available

11.9. STOT RE

Data about the mixture

No data available

Substances

No data available

11.10. Carcinogenicity

Data about the mixture

No data available

Substances

No data available

11.11. Reproductive and developmental toxicity

Data about the mixture

No data available

Substances

No data available

11.12. Genotoxicity**Data about the mixture**

No data available

Substances

No data available

11.13. In-vitro genotoxicity**Data about the mixture**

No data available

Substances

No data available

11.14. Respiratory sensitisation**Data about the mixture**

No data available

Substances

No data available

Further information

The experimental information relative to the toxicological properties of the product itself are not available:

Liquefied petroleum gases are not classified for their acute toxicity, whatever the route of administration. The presence of a high concentration of propellant in the vapours can cause nausea, headaches and dizziness, leading to a loss of consciousness in extreme cases.

Aspiration hazard: Based on the available information, the classification criteria are not satisfied.

The delayed and immediate effects, and the chronic effects of short- and long-term exposure:

Skin contact: Skin defatting, burning sensation, redness, may cause skin dryness or cracking after repeated exposure, frostbite caused by spraying at close range, irritation.

Eye contact: Irritation, burning sensation, redness, eye watering.

Ingestion: May cause irritation of the mucous lining of the gastrointestinal tract, nausea, vomiting.

Inhalation: Possible irritation of the mucous membranes of the respiratory system, coughing, drowsiness and dizziness, headaches.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Toxicity of the product:

This mixture is not hazardous for the environment. No damage to the environment is known or foreseeable in normal conditions of use.

Do not allow undiluted product or large quantities of it to reach ground water, water courses or sewage systems.

To reduce global pollution in the long-term, the following should be taken into consideration:

Reduction of the consumption of disposable products and packaging.

Participation in recycling activities.

Toxicity of the components:

Mixture: n-Butane, Propane, Isobutene.

LC50/96 h *Oncorhynchus mykiss* > 24.11 mg/l.

CE50/48 h *Daphnia magna* > 14.22 mg/l.

CE50/72 h *Pseudokirchnerella subcapitata* > 7.71 mg/l.

12.2. Persistence and degradability

For non-specified mixtures.

12.3. Bioaccumulative potential

For non-specified mixtures. Bioconcentration factor (BCF): no data available for the mixture.

Propane: 9-25.

Isobutane: 20-52.

12.4. Mobility in soil

The product is mobile in water and soil. The gaseous constituents spread quickly in the atmosphere. The mobility of the substance depends on its hydrophilic and hydrophobic properties and the abiotic and biotic conditions of the soil, including its structures, the climate conditions, the seasons (in Poland, in a moderate, variable climate) and the soil organisms mainly (bacteria, fungi, algae, invertebrates).

12.5. Results of PBT and vPvB assessments

The PBT and vPvB assessment is not available, as assessment of the chemical safety is not required/has not been performed.

12.6. Other adverse effects

The mixture is not classified as hazardous for the ozone layer. The possibility of other adverse effects of the various constituents of the mixture on the environment should be considered (e.g. the endocrine disrupting potential, the impact of the global warming potential).

12.7. Supplemental ecotoxicological information

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal of products/packaging

Waste codes

- Waste codes
- 16 05 04* gases in pressurised containers (including halons) containing hazardous substances
- 15 01 10* packaging containing residues of hazardous substances or contaminated by such substances

Waste treatment methods

- Ensure that containers are empty before disposing of them (risk of explosion). Do not pierce or incinerate, even if they are empty. This material and its container must be disposed of safely. Dispose of waste and residues in accordance with the requirements of the local authorities. Recover and recycle, if possible.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Maritime transport (IMDG)	Air transport (ICAO- TI/IATA-DGR)
14.1. UN number	1950			-
14.2. UN proper shipping name	Flammable aerosols	-	-	-
14.3. Transport hazard class(es)				

Class or division	2	-	-	-
Hazard label(s)				
14.4. Packing group	-	-	-	-

14.5. Environmental hazards

The mixture is not hazardous for the environment according to the criteria of the transport regulations.

14.6. Special precautions for user

ADR.

Tunnel restriction code: D.

Transport category: 2 - limited to 333 kg.

Limited quantity: 1 L.

Packaging instructions: ADR: P207, LP200.

Warning:

Aerosol dispensers must be protected against accidental discharge. Aerosols with a capacity not exceeding 50 ml and only containing non-toxic constituents are not subject to this regulation.

Packages containing these items must be clearly marked with the following statements: "UN 1950 AEROSOLS".

Packages must not be thrown or subject to impacts. The receptacles must be stowed securely in the vehicle or container so that they cannot tip or fall over.

14.7. Transport in bulk according to Appendix II of MARPOL 73/78 and the IBC Code

Not applicable.

14.8. Further information

Transport hazard class(es): Classification code: 5F.

Packing group: Not applicable. Limited quantities 1 L.

SECTION 15: REGULATORY INFORMATION

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

1. Regulation (EC) 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labelling and packaging of substances and mixtures - amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No.1907/2006.
2. Commission Regulation (EU) 2018/669 of 16 April 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. Text with EEA relevance.
3. Regulation (EC) 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
4. Directive (EC) 2008/98 of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.
5. Commission Directive 2013/2/EU of 7 February 2013 amending Appendix I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste.
6. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No.1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

No data available

Regulation: TMP (French tables of occupational diseases (general social security system))

Substance	CAS	TMP No.
Petroleum gases, liquefied	68476-85-7	Table: 84

Table 84: Occupational diseases caused by liquid and organic solvents

15.2. Chemical safety assessment

The supplier has not assessed the chemical safety. It is not required for the mixture.

15.3. Further information

No data available

SECTION 16: OTHER INFORMATION

Creation date: 15/10/2020
Version date: 15/10/2020
Printing date: 15/10/2020

16.1. Statement of changes

Changes in sections: 8,15.

16.2. Key for abbreviations and acronyms

CEN: European Committee for Standardisation.
CL: Classification and Labelling.
CLP: Classification; Labelling; Packaging regulation; Regulation (EC) No.1272/2008.
CAS No.: Chemical Abstracts Service number.
COM: European Commission.
CMR: Carcinogen, Mutagen or substance toxic for Reproduction.
CSA: Chemical Safety Assessment.
Report by the CSRC on chemical safety.
DMEL: Derived Minimal Effect Level.
DNEL: Derived No-Effect Level.
DPD: Dangerous Preparations Directive 1999/45/EEC.
DSD: Dangerous Substances Directive 67/548/EEC.
EC: European Commission.
EC₅₀: Half maximal effective concentration.
ECB: European Chemicals Bureau.
ECHA: European Chemicals Agency.
EC number: European Commission number (also see EINECS and ELINCS number).
EINECS: European INventory of Existing Commercial chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European standard.
EU: European Union.
GHS: Globally Harmonised System of classification and labelling of chemicals.
IC₅₀: half maximum inhibitory concentration.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
LC50: Lethal Concentration 50.
LD1: Median Lethal Dose.
Safety Data Sheet.
PBT: Persistent, Bioaccumulative and Toxic substance.
PEC: Predicted Environmental Concentration.
PNEC: Predicted No-Effect Concentration(s).
PPE: Personal Protection Equipment.
REACH: regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (EC) No.1907/2006.
SDS: Safety Data Sheet.
FEIS (or SIEF): Substance Information Exchange Forum.
STOT: Specific Target Organ Toxicity.
(STOT) RE: Repeated Exposure.
(STOT) SE: Single Exposure.
SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative.

16.3. Bibliographic references and data sources

Regulation (EC) No.1907/2006 (REACH), amended by 2015/830/EU.
Regulation (EC) No.1272/2008 (CLP, EU GHS).
Dangerous Goods Regulation (DGR) for air transport (IATA).

International Maritime Dangerous Goods Code (IMDG).

16.4. Classification of mixtures and assessment method used according to Regulation (EC) No.1272/2008 [CLP]

No data available

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H220	Flam. Gas 1A	Extremely flammable gas.
H222+H229	Aerosol 1	Extremely flammable aerosol. Pressurised container: may burst if heated.
H280	Compressed gas	Contains gas under pressure; may explode if heated.

16.6. Training advice

Before working with the product, you must be familiar with the safety rules for handling chemical products. You must also attend a suitable training course in the workplace.

People linked to the transport of dangerous goods in accordance with the ADR must be sufficiently trained to fulfil their functions (general training and safety).

16.7. Further information

No data available

The information in this Safety Data Sheet is based on our current knowledge and on the national and European regulations. This Safety Data Sheet describes the safety precautions relative to the use of this product for the usages for which it is intended. It does not guarantee all the properties of the product, particularly if it is used in ways for which it was not intended. The product must not be used for other usages than those stated in section 1. As we do not know the user's working conditions, it is the latter's responsibility to take all the necessary measures to comply with the legislation in force for specific users and avoid any adverse effects on health.