

**RONSON®****SAFETY DATA SHEET**

[in accordance with the criteria of Regulation no 1907/2006 (REACH) as amended]

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****GAS LIGHTER REFILL****1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: gas lighter refill.Uses advised against: not determined.**1.3 Details of the supplier of the safety data sheet**Manufacturer: **RONSON Europe Ltd.**

Address: ul. Strzelińska 69; 55-010 Żerniki Wrocławskie, Poland

Telephone number: +48 71 74 000 25

E-mail address for a competent person responsible for SDS: info@ronsoneurope.com

**1.4 Emergency telephone number**

112

**Section 2: Hazards identification****2.1 Classification of the substance or mixture****Aerosol 1 H222-H229**

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

**2.2 Label elements**Hazard symbols and signal words**DANGER**Names of substances mentioned on the label

None.

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**2.3 Other hazards**

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of Regulation REACH. Rapid evaporation can cause frostbite. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

**RONSON®****SAFETY DATA SHEET****Section 3: Composition/information on ingredients****3.1 Substances**

Not applicable.

**3.2 Mixtures**

A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C<sub>3</sub> through C<sub>7</sub> and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).

CAS: 68476-85-7	<u>petroleum gases, liquefied</u>	
EC: 270-704-2	<i>(contains less than 0.1 wt.% of 1,3-butadiene (EINECS 203-450-8))</i>	
Index number: 649-202-00-6	Flam. Gas 1 H220, Press. Gas H280	> 99 %
Registration number: 01-2119485911-31-XXXX		

Full text of each relevant H phrase is in chapter 16.

**Section 4: First aid measures****4.1 Description of first aid measures**

Skin contact: take off contaminated clothes. Wash frost-bitten areas with plenty of water. Remove contaminated clothing, if it is possible. Do not remove clothing if it adheres constantly to the skin. Get warm frost-bitten areas slowly. Cover wound with sterile dressing. Do not use ointments or powders.

Eye contact: wash out with plenty of water with the eyelid held wide open for 10-15 min. Protect non-irritated eye, remove any contact lenses. In case of frostbites with the liquid product, put on a sterile dressing. Seek medical advice immediately.

Ingestion: exposure by this route usually does not occur.

Inhalation: remove to fresh air. Keep warm and calm. Consult a doctor in case of any disturbing symptoms.

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

Skin contact: contact with liquid gas can cause frostbite.

Eye contact: contact with liquid gas can cause frostbite, damage of cornea.

Inhalation: low concentrate of gas in the air causes lacrimation, cough, narcosis, high concentrate of gas causes dizziness, nausea, vomiting, dyspnoea, impaired consciousness, drowsiness, loss of consciousness.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically.

**Section 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media: foam, CO<sub>2</sub>, water spray, dry chemicals.

Small fire: leave the gas to burn out in the open; in closed rooms, extinguish with a powder or snow extinguisher.

Large fire: extinguish after cutting off the gas supply with water spray.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

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

May produce toxic fumes of carbon oxides if burning. Do not inhale combustion products - risk of the propagation of the flame.

**5.3 Advice for firefighters**

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

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Product is extremely flammable. It forms explosive mixtures with air. Gas is heavier than air and can accumulate by the ground and in the lower sections of enclosed spaces. It displaces oxygen from the air. Containers exposed to fire or high temperature should be cooled with water from a safe distance (explosion hazard), if possible remove them from the hazard area. Collect used extinguishing media.

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**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Do not use any open flame. No smoking. Take precautionary measures against static discharges. Wear adequate personal protective equipment. Avoid contact with skin and eyes.

For emergency responders: ensure that removing the problem and its results is conducted by a trained personnel only. Wear chemical resistant safety clothing.

**6.2 Environmental precautions**

Do not empty into drains (danger of explosion). Notify relevant emergency services.

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

Small spillage: let it evaporate. Ventilate the leakage area well.

Large spillage: if possible, eliminate the leakage (close the gas supply, seal it), try to disperse the gas using e.g. water curtains or fog currents.

**6.4 Reference to other sections**

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

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**Section 7: Handling and storage****7.1 Precautions for safe handling**

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not pierce or burn, even after use. Ensure adequate ventilation of area, where the product is used. Protect from sources of ignition – do not smoke during filling. Gas can form explosive mixtures with air.

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

Store in a dry, cool and well-ventilated place. Keep away from sources of ignition. Protect from temperature above 50 °C. Avoid direct expose to sunlight. Keep away from food, beverages or feed for animals. Do not smoke, use open flame and sparking tools. Provide explosion-proof ventilation.

**7.3 Specific end use(s)**

Gas lighter refill.

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**Section 8: Exposure controls/personal protection****8.1 Control parameters**

Product does not contain components with occupational exposure limit values established on the European Union level.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Great Britain:

The product does not contain any components which are subject to control exposure in the workplace.

Legal Basis: EH40/2005 Workplace exposure limits. Fourth Edition 2020.

**8.2 Exposure controls**

Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work carefully wash hands. Ensure adequate ventilation. Avoid contact liquid gas with skin and eyes.

**RONSON®****SAFETY DATA SHEET**Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand and body protection

Use neoprene or nitril rubber protective gloves (EN 374). Gloves should maintain flexibility at a temperature below the atmospheric boiling point of the gas. It may be necessary to increase the frequency of changing gloves in case of immersion or prolonged contact with the product.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye protection

If there is a possibility that the liquefied gas splashes, use protective goggles (EN 166).

Respiratory protection

Under normal conditions it is not required, in case of exposure to high gas concentration or in emergency situations use respiratory protection. In cases where the oxygen concentration is  $\leq 19\%$  and / or maximum concentration of toxic substances in the air is  $\geq 1.0\%$  by volume, isolating equipment should be used.

Thermal hazards

Not applicable.

Environmental exposure controls

The product evaporates quickly after release to the environment. Do not empty into drains. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquefied gas
Colour	colourless
Odour	characteristic, weak
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range:	- 42 - 0°C
Flammability	extremely flammable aerosol
Lower and upper explosion limit	1,9 %/9,6 % vol.
Flash point	-96 to -60 °C
Auto-ignition temperature	> 287 °C
Decomposition temperature	not determined
pH	not applicable
Kinematic viscosity	not determined
Solubility	< 0,1 g/l in water
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	1200-7500 hPa (20 °C)
Density and/or relative density	0,50-0,58 g/cm <sup>3</sup>
Relative vapour density	1,55-2,08 (air=1)
Particle characteristics	not applicable

**RONSON®****SAFETY DATA SHEET****9.2 Other information**

No additional data.

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**Section 10: Stability and reactivity****10.1 Reactivity**

Product reacts with strong oxidizing agents. Gas and air create an explosive mixture. It undergoes nitration and chlorination reactions.

**10.2 Chemical stability**

The product is stable under normal conditions of use and storage.

**10.3 Possibility of hazardous reactions**

No hazardous reactions are known.

**10.4 Conditions to avoid**

Avoid direct sunlight, source of heat and ignition, temperature above 50 °C and static discharges.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Not known.

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**Section 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, inhalation. For more information – see subsection 4.2.

**RONSON®****SAFETY DATA SHEET**Symptoms related to the physical, chemical and toxicological characteristics

No data.

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

No data.

**11.2. Information on other hazards**Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1% by weight.

Other information

No data.

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**Section 12: Ecological information****12.1 Toxicity**

No specific toxicity test results. Product is not classified as hazardous for the environment.

**12.2 Persistence and degradability**

Rapid oxidation by photochemical reaction in air.

**12.3 Bioaccumulative potential**

It does not accumulate.

**12.4 Mobility in soil**

Product evaporates very quickly from soil and water. It disperses quickly in the air.

**12.5 Results of PBT and vPvB assessment**

The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

**12.6. Endocrine disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1% by weight.

**12.7. Other adverse effects**

This product has no influence on the global warming or the ozone layer depletion.

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**Section 13: Disposal considerations****13.1 Waste treatment methods**

Disposal methods for the product: given the nature and use of the product, the need for disposal is rare. Recommended method of neutralization: incineration.

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled. Used packaging should not be punctured or burned.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

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**Section 14: Transport information****14.1. UN number or ID number**

UN 1950

**RONSON®****SAFETY DATA SHEET****14.2 UN proper shipping name**

AEROSOLS, flammable

**14.3 Transport hazard class(es)**

2

**14.4 Packing group**

Not applicable.

**14.5 Environmental hazards**

Product is not dangerous for environment.

**14.6 Special precautions for user**

While handling the product, wear personal safety clothing, as indicated in section 8. Avoid sources of heat and ignition, static discharges.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

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

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on 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 (Text with EEA relevance) as amended.

**Commission Regulation (EU) No 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) (Text with EEA relevance).

**Commission Regulation (EU) No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

**Regulation (EU) 2016/425** of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance).

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Commission Directive 2006/15/EC** of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

**Commission Directive 2009/161/EU** of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Commission Directive 2017/164/EU** of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

**Commission Directive 2019/1831/EU** of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**15.2 Chemical safety assessment**

It is not necessary to carry out a chemical safety assessment for the mixture.

**RONSON®****SAFETY DATA SHEET****Section 16: Other information**

Full text of indicated H phrases mentioned in chapter 3

H220                      Extremely flammable gas.  
H280                      Contains gas under pressure; may explode if heated.

Clarification of aberrations and acronyms

PBT                      Persistent, Bioaccumulative and Toxic substance  
vPvB                      very Persistent, very Bioaccumulative substance  
Flam. Gas 1              Flammable gas, category 1  
Press. Gas                Gases under pressure

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

Key literature references and data sources

The data sheet was prepared on the basis of the safety data sheets of individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Procedures used to classify of the mixture

Classification was based on physicochemical tests, on the content of hazardous components and was calculated with calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Other data

Modifications:                      section: 1-16.  
Date of update:                      01.04.2023  
Version:                                6.0/EN

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.