

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

1.1 Product identifier

Trade name/designation Weller Pyropen Refill, 75 ml / 42g

Identification on the label/Trade name

label designation/Name of product

Pyropen Refill

Article no. (user): No. T005 16 160 99 / 49

Other means of identification

SDS-01

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

Relevant identified uses

remark

burning gas / Brenngas / gaz combustibile / gas combustibile / O gás combustivel / brandstof gas / bränslegas / braendselsgas / brenngass / polttoaine kaasu / paliwo gazowe / küttegaasi / deggazes / Kuro dujos / vykurovacı plyn / gorivo plin / gaz

1.3 Details of the supplier of the safety data sheet

Supplier

Weller Tools GmbH

Carl-Benz-Straße 2

Germany-74354 Besigheim

Telephone: +49 7143 580-0

Telefax: +49 7143 580-108

E-mail: info@weller-tools.com

Dept. responsible for information: environmental department

Information telephone: +49 7143 580-101

Information telefax: +49 7143 580-108

1.4 Emergency telephone number

GIZ Mainz +49 6131 - 19240 (language - german, english, french)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Physical hazards

Flam. Gas 1

hazard statements for physical hazards

H220 Extremely flammable gas.

hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

2.2 Label elements

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

Hazard pictograms



GHS02

Signal word

Danger

Hazard statements

Hazard statements for physical hazards:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

General:

P102 Keep out of reach of children.

Prevention:

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

P251 Do not pierce or burn, even after use.

Response:

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

P381 Eliminate all ignition sources if safe to do so.

Storage:

P403 Store in a well-ventilated place.

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

Special rules for supplemental label elements for certain mixtures

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Special rules on packaging

Tactile warning according to EN/ISO 11683.

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Description

mixture / Gemisch / mélange / mezcla / mistura / mengsel / Blandning / Blanding / seos / mieszanina / segu / maisijums / misinys / zmes / mesanica / karisim

Hazardous ingredients

propane

>10 - <25 %

CAS 74-98-6

EC 200-827-9

INDEX 601-003-00-5

REACHNo 01-2119486944-21

Flam. Gas 1, H220 / Press. Gas,

isobutane

>=25 - <=50 %

CAS 75-28-5

EC 200-857-2

INDEX 601-004-00-0

REACHNo 01-2119485395-27

Flam. Gas 1, H220 / Press. Gas,

butane

>=50 - <=100 %

CAS 106-97-8

EC 203-448-7

INDEX 601-004-00-0

REACHNo 01-2119474691-32

Flam. Gas 1, H220 / Press. Gas,

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. In case of irritation of the respiratory tract seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

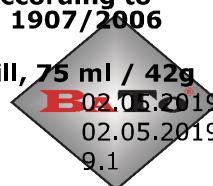
Additional information

In case of fire and/or explosion do not breathe fumes. Use water spray/stream to protect personnel and to cool endangered containers.

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Atomized water. alcohol resistant foam.



Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Provide adequate ventilation. Remove all sources of ignition.

For emergency responders

Personal protection equipment

Use appropriate respiratory protection.

6.2 Environmental precautions

No special environmental measures are necessary.

6.3 Methods and material for containment and cleaning up

No data available

6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling

Do not spray on naked flames or any incandescent material. After use replace the closing cap immediately.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Handle with care - avoid bumps, friction and impact.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Materials to avoid

Oxidizing agents.

Do not store together with:

Oxidising agent

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Protect against:

Heat

UV-radiation/sunlight

Lagerklasse: 2B (Druckgaspackungen)

7.3 Specific end use(s)

Recommendation

not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
106-97-8	n-Butane	1450 mg/m ³ 600 ppm	1810 mg/m ³ 750 ppm	

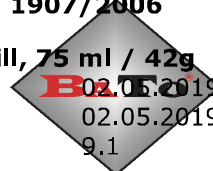
Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)



8.2 Exposure controls

Personal protection equipment

Eye/face protection

remark

Eye protection: not required.

Skin protection

Suitable material:

NBR (Nitrile rubber)

EN374

Required properties:

gas-tight

Breakthrough time (maximum wearing time) >480 min

remark

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

Respiratory protection necessary at:

insufficient ventilation

Environmental exposure controls

Technical measures to prevent exposure

refer to chapter 7. No further action is necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Gas:

compressed gas

Colour

colourless

Odour

characteristic

Odour threshold:

not determined

	parameter	Method - source - remark
	pH	not determined
	Melting point/freezing point	not determined
	Initial boiling point and boiling range	-44 °C
	Flash point (°C)	-97 °C
	Evaporation rate	not determined
	flammability	not determined
	Upper explosion limit	10,9 Vol-%
	lower explosion limit	1,5 Vol-%
	Vapour pressure	not determined Druck / Pressure / Pression (20°C): 2 - 3,5 bar
	Vapour density	not determined
	Relative density	ca.0,56 g/cm ³ Temperature 20 °C
	Fat solubility (g/L)	not determined
	Water solubility (g/L)	not miscible
	Soluble (g/L) in	not determined
	Partition coefficient: n-octanol/water	not determined
	Auto-ignition temperature	365 °C

parameter

Method - source - remark

Decomposition temperature

not determined

9.2 Other information

Solvent content (%)

Value 0 %

remark

VOC (EU) 100%

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

In case of warming:

Danger of bursting container.

>50°C

10.5 Incompatible materials

Materials to avoid

not relevant

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

Toxicokinetics, metabolism and distribution

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

11.1 Information on toxicological effects

Acute toxicity

Acute inhalation toxicity (gas)

ingredient butane

Acute inhalation toxicity (gas) 658 mg/L

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

ingredient isobutane

Acute inhalation toxicity (gas) >20 mg/L

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

ingredient propane

Acute inhalation toxicity (gas) >20 mg/L

Effective dose

LC50:

Exposure time 4 h

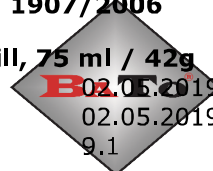
Species:

Rat

Serious eye damage/irritation

Assessment/classification

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



CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

This information is not available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxicity to microorganisms

remark

No data available

12.2 Persistence and degradability

Assessment/classification

This information is not available.

12.3 Bioaccumulative potential

Assessment/classification

This information is not available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Appropriate disposal / Package

Completely emptied packings can be re-cycled.

Waste code packaging 160500

hazardous waste No

Waste name

gases in pressure containers and discarded chemicals

Waste code packaging 160000

hazardous waste No

Waste name

WASTES NOT OTHERWISE SPECIFIED IN THE LIST

Waste code packaging 160505

hazardous waste No

Waste name

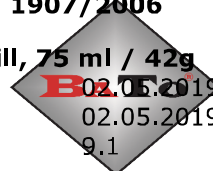
gases in pressure containers other than those mentioned in 16 05 04

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	2037	2037	2037
14.2 Proper Shipping Name	RECEPTACLES, SMALL, CONTAINING GAS	RECEPTACLES, SMALL, CONTAINING GAS	Receptacles, small, containing gas
14.3 Class(es)	2	2.1	2.1
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

Hazard label(s) 2.1



Classification code 5F
Limited quantity (LQ) 1 L
tunnel restriction code D
transport category 2

remark

Transport as "limited quantity" according to chapter 3.4 ADR/RID

Additional information - Sea transport (IMDG)

Marine pollutant No
Segregation group B / SW2 Clear of living quarters
remark EMS-No.: F-D,S-U

Additional information - Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ) 1

Special precautions for user

Sea transport (IMDG)
Limited Quantities (LQ) 120 ml

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Classification according to Annex I, Part 1

P2 Flammable gases

Entry in Annex I, Part 2

Named dangerous substances
none

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Press. Gas L: Gases under pressure – Liquefied gas

ELINCS: European List of Notified Chemical Substances

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.