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 combustible / gas combustibile / O gás combustivel / brandstof gas / bränslegas / braendselsgas / brenngass / polttoaine kaasu / paliwo gazowe / küttegaasi / deggazes / Kuro dujos / vykurovaci 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/m³ 600 ppm	1810 mg/m³ 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/cm³	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 toxikological 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 applicablenot 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.