

**Safety data sheet
 as per 1907/2006/EC**

Written on: **20.07.1994**
 Revised on: **20.04.2010**

SDS no. **001_E**
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**Trade Name:
 Pyropen Refill, 75 ml**

1 Identification of the substance/preparation and of the company/undertaking																														
Production specifications:	Aerosol																													
Trade Name:	Weller Pyropen Refill		Part No. 005 16 160 99																											
Manufacturer/supplier:	Cooper Tools GmbH, Carl-Benz-Str. 2, 74354 Besigheim Tel: +49 7143 580-0, Fax: +49 7143 580-108																													
Information supplied by:	Environmental Protection Department Tel.: +49 7143 580 101, Fax: +49 7143 580 183																													
Emergency Phone:	GIZ Mainz		Tel.: +49 6131 - 19240																											
2 Hazards identification																														
Hazard description:	F+ = Extremely flammable																													
Special hazards information for persons and environment:	<p>The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Warning! Pressurized container. R 12 Extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Without sufficient ventilation formation of explosive mixtures may be possible. Keep out of the reach of children</p> <p>Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.</p>																													
3 Composition/ information on ingredients																														
Chemical characteristics:	Mixture																													
▪ Description:	Consisting of the following components.																													
▪ Hazardous contents:	<p>Additional information: For the wording of the listed risk phrases refer to section 16.</p> <table border="1"> <thead> <tr> <th>CAS No.</th> <th>Designation</th> <th>%</th> <th>Code letter</th> <th>R paragraphs</th> <th>EINECS-No.</th> </tr> </thead> <tbody> <tr> <td>106-97-8</td> <td>butane</td> <td>50-100</td> <td>F+</td> <td>12</td> <td>203-448-7</td> </tr> <tr> <td>75-28-5</td> <td>isobutane</td> <td>25-50</td> <td>F+</td> <td>12</td> <td>200-857-2</td> </tr> <tr> <td>74-98-6</td> <td>propane</td> <td>10-25</td> <td>F+</td> <td>12</td> <td>200-827-9</td> </tr> </tbody> </table>						CAS No.	Designation	%	Code letter	R paragraphs	EINECS-No.	106-97-8	butane	50-100	F+	12	203-448-7	75-28-5	isobutane	25-50	F+	12	200-857-2	74-98-6	propane	10-25	F+	12	200-827-9
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4 First aid measures																														
General information:	n.a.																													
After inhalation:	Supply fresh air; consult doctor in case of complaints.																													
After skin contact:	Generally the product does not irritate the skin.																													
After eye contact:	Rinse opened eye for several minutes under running water.																													
After swallowing:	Normally swallowing is not possible, as the product is an aerosol can.																													
5 Fire-fighting measures																														
Suitable extinguishing agent:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.																													
Unsuitable extinguishing agents for safety reasons:	Water with full jet.																													
Special hazard resulting from the substance, its combustion products or resulting gases:	Risk of bursting in case of fire heat.																													
Special protective equipment:	Do not inhale explosion gases or combustion gases.																													
Additional information:	Cool endangered receptacles with water spray.																													
6 Accidental release measures																														
Personal precautions:	Ensure adequate ventilation. Keep away from ignition sources. Avoid contact with skin / eyes and inhalation.																													
Environmental precautions:	No special measures required.																													
Procedure for cleaning/gathering up:	Ensure adequate ventilation. Allow to evaporate.																													
Additional information:	See section 7 for information on safe handling.																													

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7 Handling and storage				
Handling				
▪ Information for safe handling:		Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.		
▪ Information for fire and explosion protection:		Keep ignition sources away - Do not smoke. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.		
Storage				
▪ Requirements for store rooms and containers:		Store in a cool location. Observe official regulations on storing packaging with pressurized containers.		
▪ Storage with other substances:		Store away from oxidizing agents.		
▪ Further details on storage conditions:		Protect from heat and direct sunlight. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.		
8 Exposure controls/personal protection				
Additional information for layout of technical equipment:		No further data, see item 7.		
Ingredients with limit values that require monitoring at the workplace:				
CAS No.	Substance designation	Type – WEL:	Limit value	Unit
106-97-8	Butane	Short-term value	1810 (750)	mg/m ³ (ppm)
		Long-term value	1450 (600)	mg/m ³ (ppm)
Additional information:		The lists that were valid during the compilation were used as basis.		
Personal protective equipment:		n.a.		
General protection and hygiene measures:		Do not inhale gases / fumes / aerosols.		
▪ Breathing protection		Not necessary if room is well-ventilated.		
▪ Hand protection		Material of gloves If contamination is possible, use gloves made of nitrile according EN 374 Penetration time of glove material > 480 min / 0,4 mm thickness		
▪ Eye protection		n.a.		
▪ Body protection		n.a.		
9 Physical and chemical properties:				
Form:		Aerosol		
Colour:		Colourless		
Odour:		Recognizable		
		Value/range	Unit	Method
Flashpoint:		- 97	°C	
Ignition point		365	°C	
Viscosity:		n.c.		
Density at 20 °C:		0,56	g/cm ³	
Lower Ex-limit:		1,5	Vol %	
Upper Ex-limit:		10,9	Vol %	
Solubility in water at 20 °C:		not miscible or difficult		
Change of state:		n.c.		
Melting point:		n.c.		
Boiling point/range:		- 44		
Solvent content:		0		
Bulk density:		n.c.		
Steam pressure at 20 °C:		2000-3500		
pH-value:		n.c.		
Additional information:		Vapours are heavier than air		

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10 Stability and reactivity	
Thermal decomposition conditions to be avoided:	Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.
Material to be avoided:	n.c.
Dangerous reactions:	No dangerous reactions known.
Dangerous products of composition:	No dangerous decomposition products known.

11 Toxicological information	
Acute toxicity:	
Primary irritant effects:	
▪ On the skin:	No irritant effect.
▪ On the eye:	No irritating effect
▪ Sensory effects	No sensitizing effects known.

12 Ecological information	
General notes:	Generally not hazardous for water.

13 Notes on disposal	
Product:	
▪ Recommendation:	Disposal must be made according to official regulations.
Waste reference number:	Recommendation AVV code : 16 05 05
Waste name:	gases in pressure containers other than those mentioned in 16 05 04
Group:	
Uncleaned packaging:	
▪ Recommendation:	Disposal must be made according to official regulations.
▪ Disposal route:	Special waste
Recommended cleaning agent:	n.c.

14 Transport data	
Land transport ADR/RID (cross-border)	
▪ Classification code :	2 / 5 F
▪ Kehler number:	-
▪ UN number:	1950
▪ Designation of goods:	UN 1950, AEROSOLS, 2.1
▪ Transport category:	2
▪ Tunnel restriction code:	D
▪ Comments:	Endorsement in shipping documents: transportation according chapter 3.4 ADR Dispatch article identification: UN 1950 (rhombus) Transportation as Limited Quantities (LQ2)
Maritime transport IMDG	
▪ IMDG / GGV sea class:	2.1
▪ Page:	
▪ UN number:	1950
▪ Packaging group:	-
▪ EMS number:	F-D, S-U
▪ Marine pollutant:	No
▪ Proper shipping name:	AEROSOLS
▪ Comments:	Endorsement in shipping documents: limited quantities Packaging labelling: AEROSOLS UN 1950 (rhombus)

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Air transport ICAO-TI and IATA-DGR	
▪ ICAO/IATA Class:	2.1
▪ UN/ID number:	1950
▪ Packaging group:	-
▪ Proper shipping name:	AEROSOLS, flammable

15 Regulatory information	
▪ Identification to EC directives:	The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
▪ Identification letter and hazard designation of product:	F+ Extremely flammable
▪ Hazard components for labelling:	Butane
▪ R paragraphs:	12 = Extremely flammable
▪ S paragraphs:	2 = Keep out of the reach of children. 16 = Keep away from sources of ignition, no smoking. 23 = Do not breathe gas 51 = Use only in well-ventilated areas 9 = Keep container in an well-ventilated place.
▪ Special Identification special preparation:	Containers are pressurised. Protect against sunlight and temperatures over 50°C. Additionally, do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition, no smoking. Keep away from children, store out of reach of children. In the absence of sufficient ventilation, can form explosive mixture with air.
National regulations	
▪ Occupational restrictions	n.a.
▪ Hazardous Incidents Ordinance:	n.a.
▪ Technical atmospheric instructions	n.a.
▪ Water hazard class:	Classed as non-polluting to water.

16 Other information	

**The specifications are based on the present-day status of our knowledge,
but do not represent any assurance of product properties and are not a basis for any contractual
legal relationship.**

**Department issuing data sheet: Environmental Protection Department
Contact person: V. Heller**

n.a.	= not applicable
n.c.	= not determined
n.r.	= not required