

 Written on:
 20.07.1994

 Revised on:
 10.04.2007

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Trade Name: Pyropen Refill, 75ml

1 Materials / Preparation and	Materials / Preparation and company designation		
Product:	Aerosol		
Trade name:	Weller Pyropen Refill Part No. 005 16 160 99		
Manufacturer / Supplier:	CooperTools 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	Composition / Component Data							
	Chemical characteristics:		Mixture	Mixture of propane, n-butane, iso-butane				
	Description: Bit			Butane Application: Burning gas for soldering equipment and lighters				
	 Hazardous contents: 							
	CAS No.	Designation	1	%	Class	R paragraphs	EG No.	
!	000074-98-6 000075-28-5 000106-97-8	Propane Isobutane Butane		10-25 25-50 50-100	F+ F+ F+	12 12 12	200-827-9 200-857-2 203-448-7	

3	Potential hazards	
!	Hazard designation:	F+ Extremely flammable
	Special hazard information for persons and environment:	Frostbite due to the effects of liquefied gas on the skin. Can form an explosive mixture with air. 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. Buildup of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4	First Aid measures	
!	General Information:	None
If breathed in: Supply fresh air; consult doctor in case of complaints		Supply fresh air; consult doctor in case of complaints
	If contact with skin: Generally the product does not irritate the skin.	
If contact with eyes Firstly evaporate the liquid by blowing on it. Rinse of		Firstly evaporate the liquid by blowing on it. Rinse opened eye for several minutes under running water. Obtain medical assistance.
	If swallowed:	If symptoms persist consult doctor.

5	Measures for fire-fighting		
!	Suitable extinguishing agents:	S: <i>CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</i>	
	Extinguishing agents unsuitable for reasons of safety:	Water with full jet	
	Special hazard resulting from the substance, its products of combustion or gases released:	Bursting hazard if overheated	
	Special protective equipment:	Cool endangered receptacles with water spray.	

6	Measures if inadvertently released		
!	Personal precautions:	Wear protective equipment. Keep unprotected persons away.	
	Environmental precautions:	No special measures required	
	Procedure for cleaning / gathering	hering n.a.	
	up: Additional information:	Ensure adequate ventilation.	



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7	Handling and	Storage					
!	Handling	•					
	Information fo	r safe handling:	Avoid impacts, friction and electrostatic discharges; explosion hazard! Ensure good ventilation, especially at floor level (heavier than air). Open and handle receptacle with care.				
	 Information fo protection: 	r fire and explosion	from su lights. D	nlight and Do not pier	rces away - Do not smoke. Pressurized conta do not expose to temperatures exceeding 50 ce or burn, even after use. Do not spray onto ent material.	℃, i.e. electric	
	Storage						
	 Requirements and containers 	for store rooms s:		a cool loc ized conta	ation. Observe official regulations on storing iners.	packagings with	
	 Storage with or 	other substances:	Store a	way from o	oxidizing and explosive material.		
	 Further data on conditions of storage: 				inlight and against temperatures over 50 °C. Intly sealed. Protect from heat and direct suni	light.	
8		ts and personal pro	tective	equipm	ient		
!	Additional information for layout of technical equipment:		See section 7. No additional measures necessary.				
	Components w	ith limit values for mo	onitoring	g in the v	vorkplace:		
	CAS No.	Substance design	ation Art Limit value Unit				
	106-97-8	Butane		WEL	Short-term value: 750 / 1810 Long-term value: 600 / 1450 Carc (if more than 0.1% of buta-1.3-diene)	ppm /mg/m³ ppm /mg/m³	
	Additional Infor	mation:	The lists valid during the making were used as basis.				
	Personal protect	ctive equipment:					
	General protection and hygiene measures:		Observe regulations issued by professional associations. Do not eat, drink or smoke when working with this material. Do not inhale gases / fumes / aerosols.				
	 Breathing prot 	 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 	า	Not required.				
	Body protection		Not required.				
	- Douy protectic	Dri					
9		hemical properties					

9	9 Physical and chemical properties:						
!	Form:	Aerosol.					
	Colour:	Colourless					
	Odour:	Recognizable					
		Value / Range	Unit	Method			
	Flashpoint:	-97	$^{\circ}$				
	Inflammation temperature:	not applicable	$^{\circ}$				
	Viscosity:	not applicable					
	Density at 20 ℃:	0.56	g/cm³				
	Lower Ex limit:	1,5	Vol %				
	Upper Ex limit:	10,9	Vol %				
	Solubility in water at 20 °C:	insoluble					
	Change of state:	Evaporates immediately					
	Melting point:	not applicable					
	Boiling point / boiling range:	-44	$^{\circ}$				
	Solvent content: organic solvent	0	%				
	Bulk density:	not applicable					
	Vapour pressure at 20 ℃:	approx. 2000 - 3500	hPa				
	PH value at 2%:	not applicable					
	Additional information	Vapours are heavier than air					



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10	Stability and reactivity	
!	Thermal decomposition /	Do not heat to more than 50 $^{\circ}$ C – bursting hazard.
	conditions to be avoided:	Keep away from sources of ignition (sparks, flames, glow)
	Hazardous reactions:	No dangerous reactions known.
	Hazardous products of	No dangerous decomposition products known.
	decomposition:	

11	Toxicology data	
!	Acute toxicity:	
	Primary irritant effects:	
	 On the skin: 	No irritant effect.
	 On the eye: 	No irritating effect.
	 Sensory effects 	No sensitizing effects known.
	 Additional toxicological information: 	None

12	Ecology data
	General information:

Generally not hazardous for water

13	Information for disposal	
!	Product:	
	 Recommendation: 	Destroy as materials or energy.
	Waste reference number:	According to national or local regulations
	Name of waste:	[recommendation: 16 05 05 gases in pressure containers other than those mentioned in 16 05 04]
	Uncleaned packaging:	
	 Recommendation: 	Total empty cans may be taken for recycling
	 Disposal route: 	

! 14	Transport data	
	Land and inland navigation transport ADR/RID/GGVS/GGVE/ADNR)	
	 Classification code : 	2/5F
	 Kemler number: 	-
	UN number:	1950
	 Designation of goods: 	UN 1950, AEROSOLS, 2.1
	Comments:	Endorsement in shipping documents: transportation according chapter 3.4 ADR Dispatch article identification: UN 1950 (rhombus) Transportation as Limited Quantities (LQ2)
	Ocean transport IMDG / GGVSee	
	IMDG / GGV sea class:	2
	• Page.	
	UN number:	1950
	Packaging group:	11
	• EMS number:	F-D, S-U
	• MFAG:	
	Marine pollutant:	No
	 Correct technical name: 	AEROSOLS
	Comments:	Endorsement in shipping documents: limited quantities Packaging labelling: AEROSOLS UN 1950 (rhombus)



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0 71/133/EEC

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Air transport ICAO / IATA	
ICAO / IATA class:	2.1
• UN / ID number:	UN 1950
Packaging group:	Ш
 Correct technical name: 	Aerosols, flammable
Comments:	UN-4G/Y fibre board boxes required, Label: Flammable Gas Marking: Aerosols, flammable UN 1950
Further transport data:	ADR: Accident data sheet not prescribed

15	Instructions	
!	 Identification to EC directives: 	Extremely flammable under directive 75/324/EEC
	 Identification letter and hazard designation of product: 	F+ Extremely flammable
	 Hazardous 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. 33 = Take precautionary measures against static discharges 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. Safety data sheet available on request for professional users.
	National regulations	
	 Occupational restrictions 	n.a.
	 Hazardous Incidents Ordinance: 	n.a.
	 VbF classification: 	n.a.
	 Technical atmospheric instructions 	n.a.
	 Water hazard class: 	Classed as non-polluting to water

16	Other data	
	Recommended use and restrictions: Further information:	Use only in accordance with the instructions for use and in observance of warnings. The regulations of directives 98/98/EEC,1999/45/EEC, 2001/58/EEC,2001/59/EEC and 2001/60/EEC are applicable. The data in this Safety Data Sheet should be used for training.

These data are based on our present state of knowledge, they do not however represent an assurance of product properties and cannot be relied on for contractual purposes at law.

Data sheet issued by: Environmental Protection Department Contact person: V. Heller

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