CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 1 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0 Replaces Version: 1		1

1.	Identification of the substance/preparation and company
1.1	Product identifier Trade Name: Original TW1000 Pepper Fog Lady 20ml Item-No: 103I-2
1.2	Relevant identified use of the Product: Pepperspray for alarm-system
1.3	Details of the supplier of the safety data sheet:  Manufacturer CARL HOERNECKE Chem. Fabrik GmbH & Co. KG Street Industriestr. 26 Postal code / City DE - 71720 Oberstenfeld Telephone/Telefax +49 (0) 7062-9496-0 / +49 (0) 7062-9496-44 E-mail (competent person) sicherheitsdatenblatt@hoernecke.de
1.4	Emergency Telephone Number +49 7062 9496-0 (8:00a.m. – 4:00p.m.)

2.	Hazards identification	
2.1	Classification of the substance or mixture: This mixture is classified as hazardous according to 1999/45/EC. R12 Extremely flammable, R36/37/38 Irritating to eyes, respiratory system and skin.	
2.2.	Label Elements 1999/45/EC  F+  Hochentzündlich  Reizend	
2.3.	Other hazards Pressurized container, protect from sunlight and do not expose to temperatures exceeding 50° C (120°F). Do not pierce or burn, even after use.	

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 2 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0 Replaces Version: 1		1

3.	Composition/inform	nation on ingredients	PROPERTY OF THE	<b>の作用を対象を持ちない。</b>	<b>第一个一个人的一个</b>
0.2	Hazardous compo	nents:			
	CAS 67-63-0	Substance Propan-2-ol	Symbols F, Xi	R-phrases R11-36-67	Concentration 20-50%
	84625-29-6	Oleoresin Capsicum	Xn	R22-36/38	1-15%
	Full text of R-, I	H- and EUH-phrases: see se	ection 16.		

4.	First aid measures
4.1	Description of first aid measures General information Take off immediately all contaminated, soaked clothing. In case of inhalation Remove casualty to fresh air and keep at rest. In case of constant complaints seek medical advise. In case of skin contact Wash away thoroughly with large amounts of cold water and soap. Do not apply cremes or ointments. In case of constant complaints seek medical advise. In case of eye contact Remove contact lenses, if possible. Irrigate with plenty of water for 10 –15 minutes. In case of constant complaints seek medical advise. In case of ingestion Rinse mouth with water. Ingest water (1 - 2 glass) If you feel unwell seek medical advise.
4.2	Most important Symptoms and effects, both acute and delayed. Irritation of eyes, respiratory system and skin.
4.3	Indication of any immediately medical attention and special treatment needed No data available

5. 5.1	extinguishing measures extinguishing media Suitable extinguishing media Water mist, dry extinguishing media, foam, carbon dioxide (CO <sub>2</sub> ) Unsuitable extinguishing media because of safety reason Full water jet
5.2	Special hazards arising from the substance or mixture Development of hazardous combustion gases or vapours possible in the event of fire: Carbon monoxide, Nitrogen oxides (NOx), Sulphur oxides
5.3	Advice for fire-fighters In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothes. Use water spray jet to protect and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 3 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0 Replaces Version: 1		1

6.	Accidental release mesures
6.1	Personal precautions, protective equipment and emergency procedures Provide adequate ventilation. Remove all sources of ignition. No Smoking. Avoid skin and eye contact. Do not breath vapours and aerosols. In case of release in large amounts (several spray cans) additionally use personal protection equipment (see section 8).
6.2	Environmental precautions Contain liquid in case of release of large amounts. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
6.3	Methods an material for containment and cleaning In case of release of aerosol/gas provide adequate ventilation. Active agent / liquid: Suitable material for taking up: universal binding agent, Kieselguhr Treat the recovered material as prescribed in the section on waste disposal Clean contaminated areas with household detergent.

7.	Handling and Storage
7.1	Precautions for safe handling Attend the minimum distance of 1 meter. Do not spray towards opposing wind. Keep out of the reach of children.  Advice on protection against fire and explosion Protect from sunlight and do not expose to temperatures exceeding 50° C (120°F). Do not pierce or burn, even after use. Do not spay on a naked flame or any incandescent material. Keep away from sources of ignition — no smoking.
7.2	Conditions for safe storage, including any incompatibilities Requirements for storage room and containers Store in original containers in a well ventilated, dry and cool place. Protect from sunlight. Respect local special regulations for storage of aerosols. Hints on joint storage Do not store with: explosives; flammable solid substances; self igniting substances; substances that my produce flammable gas in contact with water; oxidizing substances; organic peroxides, self-reactive substances; infectious substances; radio active substances Further information on storage conditions Recommended storage temperature: 5°C to 25°C (41°F - 77°F) Keep away from any kind of food.
7.3	Specific end uses Pepperspray for alarm-system

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 4 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0 Replaces Version: 1		1

8.	Exposure controls / Personal protection
8.1	Control parameters
	n.a.
8.2	Suitable technical control equipment
	n.a.
	Personal protection equipment
	If used correctly no special measures are necessary. In case of accidental release we
	suggest:
	Respiratory protection
	Filtering device (full mask or mouthpiece) with filter: A2P2
	Hand protection
	Protective gloves
	Material: Butyl caoutchouc (butyl rubber)
	Eye protection
	Protective goggles or respiratory protection full mask.
	Environment exposure control measures
	n.a.

9.1	Physical and chemical Pro- Information on basic physical Appearance: Colour: Odour: Safety parameters pH Boiling point Flashpoint Flammability Danger of explosion  Explosion limit [Vol, %]  Pressure in can Specific gravitiy Solubility		n.a. not determined < 21°C (69,8°F) extremely flammable Product is not explosive. However, formation of explosive air/ vapour mixtures are possible not determined not determined ca. 5 bar (20°C) ca.0,7 g/cm3 (20°C) not determined
	partition coefficient (POV viscosity	V)	not determined not determined n.a.
9.2	Other information None known		

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 5 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0	Replaces Version:	1

10.	Stability and Reactivity
10.1	Reactivity
	No data available
10.2	Chemical stability
	The product is chemically stable. Observe expiry date
10.3	Possibility of hazardous reactions
	No decomposition if stored and applied as directed
10.4	Conditions to avoid
	Heat, flames and sparks
10.5	Incompatible materials
	None known
10.6	Hazardous decomposition products
***************************************	No data available

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11.1	Toxicological information Information on toxicological effects
111.1	Information on toxicological effects
	Acute toxicity
	Propan-2-ol, CAS-Nr 67-63-0
	LC <sub>50</sub> (inhalativ, rat) 47,5 mg/l/8h
	LD <sub>50</sub> (oral, rat) 5.280 mg/kg
	LD <sub>50</sub> (dermal, rabbit) 12.800 mg/kg
	Oeloresin Capsicum, CAS-Nr 84625-29-6 Capsaicin LD $_{50}$ (oral) 160 mg/kg
	Irritation
	Irritating to eyes, respiratory system and skin.
	Corrosion
	No data available.
	Sensitization
	No data available.
	Toxicity – repeated exposure
	No data available. Carcinogenicity
	No data available.
	Mutagenicity
	No data available.
	Reproductive toxicity
	No data available.
	Further information
	No tests have been carried out with the product. Classification has been carried out in
	accordance with the conventional method.

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 6 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0	Replaces Version: 1	

12.	Ecological information
12.1	Toxicity Propan-2-ol, CAS-Nr 67-63-0 LC <sub>50</sub> (fish, 96h) 9.640 mg/l EC <sub>50</sub> (daphnia, 48h) 13.299 mg/l EC <sub>72</sub> (algae, 72h) >1,000 mg/l
	EC <sub>10</sub> (bacteria, 18h) 5.175 mg/l Oeloresin Capsicum, CAS-Nr 84625-29-6 No data available
12.2	Persistence and degradability Biological degradation Propan-2-ol, CAS-Nr 67-63-0 95% / 21d / method: OECD 301 E, therefore readily biodegradable Oeloresin Capsicum, CAS-Nr 84625-29-6 No data available
12.3	Bioaccumulative potential Propan-2-ol, CAS-Nr 67-63-0 No Bioaccumulation Oeloresin Capsicum, CAS-Nr 84625-29-6 No data available
12.4	Mobility in soil No data available
12.5	Results of PBT and vPvB assessment No data available
12.6	Other adverse effects No data available

13.	Disposal consideration  Waste treatment methods Disposal in accordance with local and national regulations. Do not empty into drains; dispose of this material and its container in a safe way. Waste codes should be assigned by the user based on the application for which the product was used.  The following Waste Codes are only suggestions:	
	Waste Code (EWC)	unused product 160504 gases in pressure containers (including halons) containing dangerous substances
		unused product 160504 gases in pressure containers (including halons) containing dangerous substances
	Disposal of uncleaned Packaging	uncleaned packaging 150110 packaging containing residues of or contaminated by dangerous substances

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 7 of 8
according to Regulation (EC) No. 1907	7/2006 (REACH)	
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version. 2.0	Replaces Version:	1

14.	Transport information
14.1	UN-Number: 1950
14.2	Proper Shipping Name ADR/RID AEROSOLS, flammamble IMDG-Code Not defined ICAO-TI / IATA-DGR AEROSOLS, flammamble
14.3	Class / Classification code ADR/RID 2.1 / 5F "LQ2" limited quantity ICAO-TI / IATA-DGR 2.1 Packing instr. 203
14.4	Packing group No packing group is assigned to class 2
14.5	Environmental hazardous ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: [] yes / [x] no Marine Pollutant: [] yes / [x] no
14.6	Special precautions for user See section 6 – 8
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code The product is not transported in bulk.

15.	Regulatory information
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture  No data available.
15.2	Chemical Safety Assesment No data available.

CARL HOERNECKE chem. Fabrik GmbH & Co. KG		+49(0)7062/94960
Material Safety Data Sheet		Page 8 of 8
according to Regulation (EC) No. 1907/2006 (REACH)		
Original TW1000 Pepper Fog		
Revision Date: 06.03.12 Issue Date: 06.03.12		2
Version, 2.0 Replaces Version: 1		1

16.	Other information	on
	Full text of R- an R-phrases R11 R22 R36/37/38 R67	Highly flammable Harmful if swallowed. Irritating to eyes, respiratory system and skin. Vapours may cause drowsiness and dizziness.
	Data Sheet is	tion is based on our present state of knowledge. The purpose of this Safety to describe the products in terms of their safety requirements. The data nify any warranty with regard to the products' properties.

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