

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

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

- **1.1 Product identifier**
- **Trade name:** MK9 CS Mace Fogger
- **Article number:** 9020
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **Further information obtainable from:** Customer Care Department
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H335 May cause respiratory irritation.

H229 Pressurised container: May burst if heated.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

(Contd. on page 2)

Safety Data Sheet


according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014


Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 1)

 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

 N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

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.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

d-Limonene (CLP classification)

[(2-chlorophenyl)methylene]malononitrile

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P285 In case of inadequate ventilation wear respiratory protection.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 2)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash thoroughly after handling.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

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

23,2 % by mass of the contents are flammable

· **Hazard description:**

· **WHMIS-symbols:**

D1B - Toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 1

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 1

* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

None of the ingredients is listed.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 3)

Dangerous components:

CAS: 811-97-2 EINECS: 212-377-0	Norflurane ⚠ Press. Gas, H280	50-100%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7	d-Limonene (CLP classification) ☒ Xn R65; ☒ Xi R38; ☒ Xi R43; 🔥 F R10; 🌳 N R50/53 ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
CAS: 78-92-2 EINECS: 201-158-5 Index number: 603-127-00-5	butanol ☒ Xi R36/37 R10-67 ⚠ Flam. Liq. 3, H226 ⚠ Eye Irrit. 2, H319; STOT SE 3, H335-H336	10-25%
CAS: 34590-94-8 EINECS: 252-104-2	(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit	2,5-10%
CAS: 2698-41-1 EINECS: 220-278-9	[(2-chlorophenyl)methylene]malononitrile ☠ T R25; ☒ Xn R42/43; 🌳 N R50 ⚠ Acute Tox. 3, H301 ⚠ Resp. Sens. 1, H334 ⚠ Aquatic Acute 1, H400 ⚠ Skin Sens. 1, H317	≤ 2,5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Take affected persons out into the fresh air.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 4)

- **4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks
Headache
Breathing difficulty
Dizziness
Coughing
Allergic reactions
Irritant to skin and mucous membranes.
Irritant to eyes.

- **Hazards**

Danger of pulmonary oedema.
Danger of impaired breathing.
Vapours may cause drowsiness and dizziness.

- **4.3 Indication of any immediate medical attention and special treatment needed**

May produce a lachrymatory / laryngospastic effect.
If swallowed or in case of vomiting, danger of entering the lungs.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
Contains d-Limonene (CLP classification), [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** None.

- **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.
Danger of receptacles bursting because of high vapour pressure when heated.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

- **Additional information**

Cool endangered receptacles with water spray.
In case of fire involving large quantities, evacuate area and fight fire from from the upwind side.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 5)

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Isolate area and prevent access.

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Use only in well ventilated areas.

Do not spray on flame or other ignition sources. No smoking.

· **Information about fire - and explosion protection:**

Keep respiratory protective device available.

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.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 7)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 6)

· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****811-97-2 Norflurane**

WEEL (USA) Long-term value: 1000 ppm

78-92-2 butanolPEL (USA) Long-term value: 450 mg/m³, 150 ppmREL (USA) Short-term value: 455 mg/m³, 150 ppmLong-term value: 305 mg/m³, 100 ppmTLV (USA) Long-term value: 300 mg/m³, 100 ppm

EL (Canada) Long-term value: 100 ppm

EV (Canada) Short-term value: 150 ppm

Long-term value: 100 ppm

34590-94-8 (2-methoxymethylethoxy)propanolIOELV (EU) Long-term value: 308 mg/m³, 50 ppm
SkinPEL (USA) Long-term value: 600 mg/m³, 100 ppm
SkinREL (USA) Short-term value: 900 mg/m³, 150 ppm
Long-term value: 600 mg/m³, 100 ppm
SkinTLV (USA) Short-term value: 909 mg/m³, 150 ppm
Long-term value: 606 mg/m³, 100 ppm
SkinEL (Canada) Short-term value: 150 ppm
Long-term value: 100 ppm
SkinEV (Canada) Short-term value: 910 mg/m³, 150 ppm
Long-term value: 605 mg/m³, 100 ppm**2698-41-1 [(2-chlorophenyl)methylene]malononitrile**PEL (USA) Long-term value: 0,4 mg/m³, 0,05 ppmREL (USA) Ceiling limit: 0,4 mg/m³, 0,05 ppm
SkinTLV (USA) Ceiling limit: 0,39 mg/m³, 0,05 ppm
SkinEL (Canada) Ceiling limit: 0,05 ppm
SkinEV (Canada) Ceiling limit: 0,4 mg/m³, 0,05 ppm
Skin· **DNELs** No further relevant information available.· **PNECs** No further relevant information available.· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 7)

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Respiratory protection:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

(Contd. on page 9)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 8)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Aerosol
Colour:	According to product specification
Odour:	Pungent
Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Not Determined.
Boiling point/Boiling range:	Not applicable, as aerosol.

· Flash point: Not applicable, as aerosol.

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Not determined.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure: Not determined.

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with

water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· 9.2 Other information: No further relevant information available.

(Contd. on page 10)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 9)

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Danger of receptacles bursting because of high vapour pressure when heated.
- **10.3 Possibility of hazardous reactions**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Reacts with strong acids and oxidizing agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Danger of toxic fluorine based pyrolysis products.
Chlorine compounds

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

5989-27-5 d-Limonene (CLP classification)

Oral	LD50	4400 mg/kg (rat)
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2698-41-1 [(2-chlorophenyl)methylene]malononitrile

Oral	LD50	178 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
Danger through skin adsorption.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
Toxic and/or corrosive effects may be delayed up to 24 hours.
May be harmful if inhaled.
- **Acute effects (acute toxicity, irritation and corrosivity):** Vapours have narcotic effect.
- **Sensitisation:** Sensitization possible by inhalation and/or dermal contact.

(Contd. on page 11)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 10)

- **Repeated dose toxicity:**
May cause damage to organs through prolonged or repeated exposure.
Repeated exposures may result in skin and/or respiratory sensitivity.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Toxic for aquatic organisms

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

EC50	0,2-0,3 mg/kg (Oncorhynchus mykiss) 96 H
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 12)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 11)

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · DOT, ADR, IMDG, IATA · 14.2 UN proper shipping name · DOT · ADR · IMDG · IATA · 14.3 Transport hazard class(es) · DOT 	<p>UN1950</p> <p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT</p> <p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS,</p>
<ul style="list-style-type: none"> · Class · Label 	<p>2.2</p> <p>2.2+6.1</p>
<ul style="list-style-type: none"> · ADR 	<p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT</p> <p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS,</p>
<ul style="list-style-type: none"> · Class · Label 	<p>2.2 5T</p> <p>2.2+6.1</p>
<ul style="list-style-type: none"> · IMDG 	<p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS</p> <p>AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT</p> <p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS,</p>
<ul style="list-style-type: none"> · Class · Label 	<p>2.2</p> <p>2.2+6.1</p>
<ul style="list-style-type: none"> · IATA 	<p>AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS,</p>
<ul style="list-style-type: none"> · Class · Label 	<p>2.2</p> <p>2.2+6.1</p>

(Contd. on page 13)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 12)

· 14.4 Packing group	
· DOT, ADR, IMDG, IATA	Not Applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Not applicable.
· Danger code (Kemler):	26
· EMS Number:	F-D,S-U
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADR	
· Limited quantities (LQ)	120 ml
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.2 (6.1)

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

78-92-2 | butanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 14)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date: September 3, 2014

Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

(Contd. of page 13)

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

2698-41-1 | [(2-chlorophenyl)methylene]malononitrile

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

811-97-2 | Norflurane

5989-27-5 | d-Limonene (CLP classification)

78-92-2 | butanol

34590-94-8 | (2-methoxymethylethoxy)propanol

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

5989-27-5 | d-Limonene (CLP classification)

78-92-2 | butanol

34590-94-8 | (2-methoxymethylethoxy)propanol

- **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

(Contd. on page 15)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

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Trade name: MK9 CS Mace Fogger

(Contd. of page 14)

- H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
- R10 Flammable.
 R25 Toxic if swallowed.
 R36/37 Irritating to eyes and respiratory system.
 R38 Irritating to skin.
 R42/43 May cause sensitisation by inhalation and skin contact.
 R43 May cause sensitisation by skin contact.
 R50 Very toxic to aquatic organisms.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:

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
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 : Flammable aerosols, Hazard Category 3
 Press. Gas: Gases under pressure: Compressed gas
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com