



# Safety Data Sheet



according to Australia WHS Regulations

Revision: 26 November 2019

## 1 Identification

- **Product identifier**
- **Trade name: MK9 CS Mace Fogger**
- **Recommended use:** Crowd Control Device
- **Restrictions on use:** Contact manufacturer/supplier
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Safariland, LLC  
13386 International Parkway  
Jacksonville, FL 32218 USA  
Customer Care (800) 347-1200
- Distributed within Australia by:  
Grycol International Pty Ltd
- (Physical Address)  
344 Botany Road,  
Alexandria, NSW 2015 Australia
- (Mailing Address)  
P.O. Box 6123 SSBH  
Alexandria NSW 2015 Australia
- Ph: + 61 2 9698 8725  
Fax: +61 2 9319 0732
- **Further information obtainable from:** Customer Care Department
- **Emergency telephone number:**  
ChemTel Inc.  
1-800-526-4727 (North America)  
1-314-985-1511 (International)  
Emergencies within Australia - 131126 (NSW Poison Control Centre)  
Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

## 2 Hazard(s) Identification

- **Classification (Australia, New Zealand)**  
Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2018 National Code of Practice)  
Australia ADG – Dangerous Goods (Classified according to National Transport Commission Australian Dangerous Goods Code)
  - **Hazard pictograms**
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- GHS06 GHS08
- **Signal word** Danger
  - **Hazard statements**  
H229 Pressurised container: May burst if heated.  
H331 Toxic if inhaled.

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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.

H304 May be fatal if swallowed and enters airways.

**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.

P261 Avoid breathing mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection.

P285 In case of inadequate ventilation wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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.

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

### 3 Composition and Information on Ingredients

**Chemical characterisation: Mixtures****Components:**

811-97-2	Norflurane ⚠ Press. Gas C, H280	60-100%
5989-27-5	d-limonene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-30%
78-92-2	2-Butanol ⚠ Flam. Liq. 3, H226 ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335-H336	10-30%

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34590-94-8	Dipropylene glycol monomethyl ether Flam. Liq. 4, H227	<10%
2698-41-1	[(2-chlorophenyl)methylene]malononitrile  Acute Tox. 3, H301; Acute Tox. 2, H330 Resp. Sens. 1, H334; STOT RE 2, H373 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	<10%

· **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

## 4 First Aid Measures

### · 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 or rash occurs: Get medical advice/attention.

#### · 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 lying on their back should be turned onto their side.

#### · Most important symptoms and effects, both acute and delayed

Asthma attacks

Irritating to eyes, respiratory system and skin.

Headache

Breathing difficulty

Dizziness

Coughing

Allergic reactions

Gastric or intestinal disorders when ingested.

#### · Hazards:

Vapours may cause drowsiness and dizziness.

Danger of pulmonary oedema.

Danger of impaired breathing.

May be fatal if swallowed and enters airways.

Toxic if inhaled.

May cause sensitisation by skin contact.

#### · 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.

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Contains d-limonene, [(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.

## 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **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.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Cool endangered receptacles with water spray.  
Use large quantities of foam as it is partially destroyed by the product.  
In case of fire involving large quantities, evacuate area and fight fire from the upwind side.

## 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
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.  
Isolate area and prevent access.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 section 13.  
Ensure adequate ventilation.  
Send for recovery or disposal in suitable receptacles.
- **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.

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## 7 Handling and Storage

- **Handling:**

- **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.

Pressurised 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.

- **Conditions for safe storage, including any incompatibilities**

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

Observe official regulations on storing packagings with pressurised 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.

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

## 8 Exposure controls and personal protection

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

### 811-97-2 Norflurane

WES (Australia)	Long-term value: 4240 mg/m <sup>3</sup> , 1000 ppm
WEEL (USA)	Long-term value: 1000 ppm
WES (New Zealand)	Long-term value: 1000 ppm

### 78-92-2 2-Butanol

WES (Australia)	Long-term value: 303 mg/m <sup>3</sup> , 100 ppm
PEL (USA)	Long-term value: 450 mg/m <sup>3</sup> , 150 ppm
REL (USA)	Short-term value: 455 mg/m <sup>3</sup> , 150 ppm Long-term value: 305 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 300 mg/m <sup>3</sup> , 100 ppm
WES (New Zealand)	Long-term value: 303 mg/m <sup>3</sup> , 100 ppm

### 34590-94-8 Dipropylene glycol monomethyl ether

WES (Australia)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Sk
PEL (USA)	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL (USA)	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin

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TLV (USA)	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin
WES (New Zealand)	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm skin
<b>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</b>	
WES (Australia)	Peak limitation: 0.39 mg/m <sup>3</sup> , 0.05 ppm Sk
PEL (USA)	Long-term value: 0.4 mg/m <sup>3</sup> , 0.05 ppm
REL (USA)	Peak limitation: 0.4 mg/m <sup>3</sup> , 0.05 ppm Skin
TLV (USA)	Peak limitation: 0.39* mg/m <sup>3</sup> , 0.05* ppm *inhalable fraction and vapor;Skin
WES (New Zealand)	Peak limitation: 0.39 mg/m <sup>3</sup> , 0.05 ppm skin

- **Exposure controls**

- **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:**

Suitable respiratory protective device recommended.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

- **Protection of hands:**



Protective gloves

- **Material of gloves**

A recommendation for a suitable glove material is not available. Testing will be required to determine the suitability of any potential glove materials.

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **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.

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No further relevant information available.

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## 9 Physical and Chemical Properties

· <b>Information on basic physical and chemical properties</b>	
· <b>Appearance</b>	
Form:	Aerosol
Colour:	According to product specification
· Odour:	Pungent
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/freezing point:	Not determined.
· Initial boiling point and boiling range:	Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
· Flammability (solid, gas):	Not applicable.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Explosive properties:	Not determined.
· <b>Explosion limits</b>	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Non-oxidising.
· 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.
· <b>Viscosity</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.

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Danger of receptacles bursting because of high vapour pressure when heated.

- **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 oxidising agents.

- **Conditions to avoid** No further relevant information available.

- **Incompatible materials** No further relevant information available.

- **Hazardous decomposition products**

Carbon monoxide and carbon dioxide

Danger of toxic fluorine based pyrolysis products.

Chlorine compounds

## 11 Toxicological Information

- **Information on toxicological effects**

- **Acute toxicity:** Toxic if inhaled.

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

ATE (Acute Toxicity Estimates)		
Oral	LD50	>5000 mg/kg
Inhalative	LC50/4h	4-8 mg/l

5989-27-5 d-limonene		
Oral	LD50	>2000 mg/kg (rat, female)

2698-41-1 [(2-chlorophenyl)methylene]malononitrile		
Oral	LD50	178 mg/kg (rat)

- **Primary irritant effect**

- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation:** Causes eye irritation.

- **Respiratory or skin sensitisation:** May cause sensitisation by inhalation and skin contact.

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

5989-27-5	d-limonene	3
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- **Probable routes of exposure:**

Inhalation.

Eye contact.

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Irritating to eyes, respiratory system and skin.

Toxic if inhaled.

May be fatal if swallowed and enters airways.

- **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** May cause respiratory irritation.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** May be fatal if swallowed and enters airways.

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## 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

Toxic for aquatic organisms

<b>5989-27-5 d-limonene</b>	
LC50	<1 mg/l (pimephales promelas)
EC50	0.307 mg/l (daphnia)
<b>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</b>	
EC50	0.2-0.3 mg/kg (Oncorhynchus mykiss)

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxic effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Toxic for aquatic organisms

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **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.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **UN-Number**

- **DOT, ADG, IMDG, IATA**

UN1950

- **UN proper shipping name**

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<ul style="list-style-type: none"> <li>· DOT</li> <li>· ADG</li> <li>· IMDG</li> <li>· IATA</li> </ul>	AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS 1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS,
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· **Transport hazard class(es)**

· DOT



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2.2 2.2+6.1
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· ADG



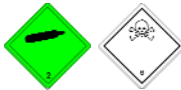
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2.2 5T 2.2+6.1
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· IMDG



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2.2 2.2+6.1
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· IATA



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2.2 2.2+6.1
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· **Packing group**

· DOT, ADG, IMDG, IATA Not Applicable

· **Environmental hazards:**

· **Marine pollutant:**



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- |   |                 |
|---|-----------------|
| · <b>Special precautions for user</b>                                       | Not applicable. |
| · <b>Danger code (Kemler):</b>  | 26              |
| · <b>EMS Number:</b>  | F-D,S-U         |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

None of the ingredients are listed.

- **Australia**

- **Australian Inventory of Chemical Substances**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients are listed.

## 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.

H227 Combustible liquid.

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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

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

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

- **Abbreviations and acronyms:**

ADR: 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

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)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent  
PBT: Persistent, Bio-accumulable, Toxic  
vPvB: very Persistent and very Bioaccumulative  
Aerosol 3: Aerosols – Category 3  
Press. Gas C: Gases under pressure – Compressed gas  
Flam. Liq. 3: Flammable liquids – Category 3  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

**Sources**

SDS Prepared by:

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